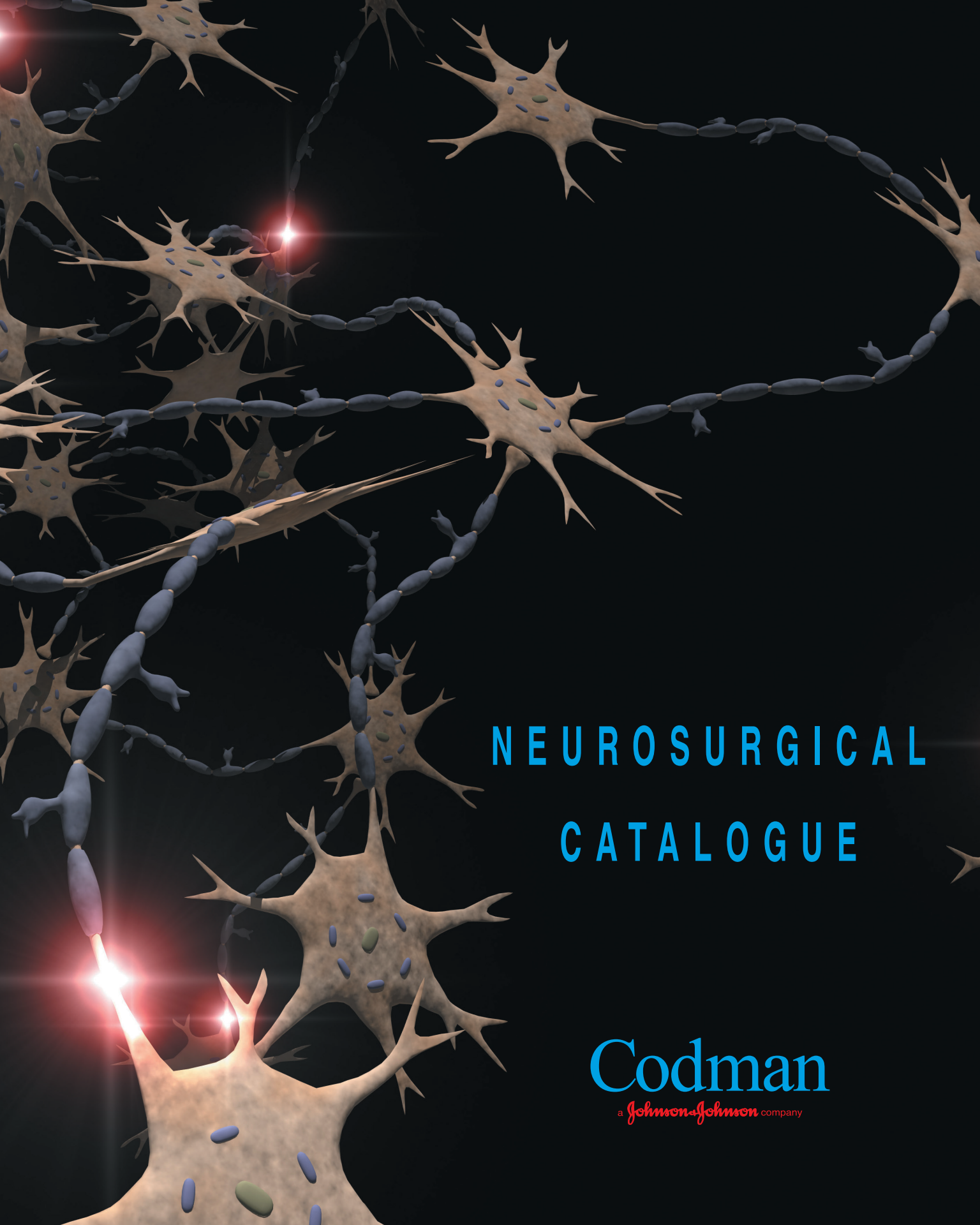

NEUROSURGICAL CATALOGUE

Codman

a Johnson & Johnson company

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NEUROSURGICAL CATALOGUE

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TERMS OF SALE

A. ORDERING INFORMATION

Purchase orders should be addressed to your local Codman Distributor.

If you have any difficulty in locating your local Codman Distributor please contact:-

Codman Europe
Johnson & Johnson Medical Limited
Coronation Road
Ascot
Berkshire
SL5 9EY
United Kingdom
Telephone +44 (0)1344 871000
Fax +44 (0)1344 871120
Website www.jnjgateway.com

B. REPAIR PROGRAMMES

1. Repair Programme

Codman provides a quality repair service for all the instruments and equipment in this catalogue. Every effort is made by our skilled craftspersons to see that damaged instruments are repaired to optimal working condition. Items requiring repair should be sent to your local Codman distributor.

2. Warranty on repairs

Repair products are warranted to be free from defects in workmanship and material with respect to the Repair and Restore only, and not with respect to the original instrument.

C. PRICES

Local prices are listed in the local Codman price list, and are subject to change without notice.

Prices in the Price List are for One Unit, unless otherwise noted. Where prices are for more than one unit, the minimum shipping unit must be ordered.

D. RETURN GOODS POLICY

Codman makes every effort to provide customers with a prompt and effective Return Goods Programme.

All products returned must have prior authorisation and be accompanied by relevant documentation.

Please contact your local Codman Distributor for local terms and conditions

E. WARRANTY

The Company's sole warranty obligations in respect of the Goods are expressed separately within the product documentation published by the Company in respect of specific products, including the Operations Manual, Directions for Use and Service Manual, to which the Customer should refer for further details. Any such product warranties shall be deemed to be incorporated in these conditions.

For disposable and silicone products, in addition to the warranty printed on this page, the products are warranted to be in a sterile condition if the package in which the product is contained is intact in its original sealed condition.

For specific warranty information contact your local Codman sales representative.

Limitations

Alteration, repair or modification of any product which is performed by persons not authorised by Codman will result in immediate loss of warranty.

Codman shall not, in any case, be liable for direct, indirect, special, incidental or consequential damages arising from breach of warranty, breach of contract, negligence, or any other legal theory. Such damages include, but are not limited to, loss of profits or revenues, loss of use of the product or any associated equipment, cost of capital, cost of any substitute product, facilities or services, down-time costs, or claims of customers for such damages.

F. MATERIALS AND DESCRIPTIONS

Instruments in this catalogue are stainless steel, unless otherwise indicated. Product photographs shown in this catalogue may not precisely represent the instruments.

Every effort has been made to depict and describe the products accurately; however, we reserve the right to alter our patterns and make modifications to certain products from time to time and without notice.

Measurements noted may vary slightly.

G. WARRANTY

The Company's sole warranty obligations in respect of the Goods are expressed separately within the product documentation published by the Company in respect of specific products, including the Operations Manual, Directions for Use and Service Manual, to which the Customer should refer for further details. Any such product warranties shall be deemed to be incorporated in these Conditions.

H. MATERIALS AND DESCRIPTIONS

Instruments in this catalogue are stainless steel, unless otherwise indicated. Product photographs shown in this catalogue may not precisely represent the instruments.

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Measurements noted may vary slightly.

I. CODMAN U.S. TRADEMARKS

The following trademarks are used in identifying Codman products:

ACCU-FLO
AHT
BACTISEAL
BICOL
CLASSIC
CLASSIC PLUS
CMC
CODMAN
COTTONOID
CRANIOSORB
DURAFORM
EDS3
EPIC
E-SERIES
HAKIM
HOLTER
ICP EXPRESS
ISOCOOL
MAGNAFREE
MASTERSON
ME2
MEDOS
MICROCARE
MICROSECT
MICROSENSOR
MICROVASC
PEEL-AWAY
PRESERVE
PRIZM
QUICKLINE
RAPIDCLEAN
RICKHAM
SECTO
SIPHONGUARD
SYNERGY
UNI-SHUNT
VPV

J. OTHER TRADEMARKS

Trademark	Trademark Owner
ANEUROPLASTIC	DePuy International
ARCHIMEDES	Codman Neuro Sciences SARL
BIOMESH	Bioplate Inc
BIOPLATE	Bioplate Inc
BOOKWALTER	John Bookwalter MD
CON-CLIP	Ethicon Inc
CRANIOPLASTIC	DePuy International
CROCKARD	Hillway Surgical Ltd
DURAPATCH	Ethicon Inc
ELGILOY	Elgiloy Company
ETHISORB	Ethicon Inc
FLEXBAR	Flexbar Corporation
FLEXTIP PLUS	Arrow International Inc. Used under licence
GREENBERG	I.M.Greenberg
HARDY	Jules Hardy MD
KARLIN	Karlin Technology Inc
KEVLAR	E.I. Du Pont de Nemours and Company
LIGACLIP	Ethicon Inc
LIORESAL	Novartis Pharma Inc
LUER-LOK	Becton Dickinson & Company
MALIS	Leonard I. Malis MD
MICROMEDES	Codman Neuro Sciences SARL
NEUROLON	Ethicon Inc
RHOTON	Al Rhoton MD
SNAP LOCK	Arrow International Inc. Used under licence
SUNDT	Thor Sundt MD
SURECAN	B. Braun Medical
SURG-I-BAND	Scanlan Company
TYVEK	E.I. Du Pont de Nemours and Company
ULTEM	General Electric
	Registered Trademark Owner
The Ghajar Guide	Neurodynamics Inc

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MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System

System features

- High power and micro bipolar cutting
- Gentle, effective and aperiodic coagulation
- Separate LED displays for high power cut; micro cut; coagulation
- Independent cut/coagulate controls
- Power displayed in Malis units
- Irrigation interface
- LED test function
- Synthesised voice diagnostics
- Remote control handset

80-1172 Malis CMC III Bipolar generator I.E.C
Includes Footpedal (80-1184) Wireless remote control (80-1175) and Power cord

Associated Equipment

80-9100 MALIS Irrigation Module 1000 (see page 4)
80-9115 Connecting cable for Module 1000 to CMC-III
80-1177 CODMAN Floorstand for CMC-III
80-1138 Irrigation I.V. Pole

Accessories

80-1184 CMC-III Footpedal
80-1175 Wireless remote control

Bipolar cords See page 3
Cord & Tubing sets See page 5

COAGULATORS, BIPOLAR

80-1187	SYNERGY® MALIS™ Precision Bipolar Coagulator Includes 1 generator, 1 detachable power cord, and 1 electric foot pedal.

Not available in EU

BIPOLAR Cords
Use with all CODMAN Bipolar forceps, Bipolar Cutting forceps or Bipolar Irrigating forceps.

30-1536 BIPOLAR Cord, Reusable, Banana Plugs. 3.0m
80-1186 BIPOLAR Cord, Reusable, Unitised Plug. 3.0m

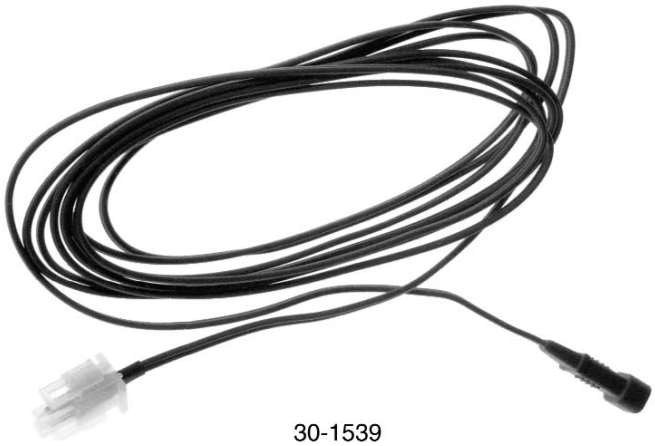
CAUTION: Flash autoclaves are not recommended for reusable cords

30-1538 BIPOLAR Cord, Disposable, Banana Plugs. 3.0m Sterile, Pack of 10
80-1188 BIPOLAR Cord, Disposable, Unitised Plug. 3.0m Sterile, Pack of 10
30-1539 BIPOLAR Cord, Reusable, Plug for CMC-II Coagulator. 3.0m

For BIPOLAR Cord and Tubing combinations please see page 5.

30-1536

30-1538



30-1539

COAGULATORS, BIPOLAR, IRRIGATION MODULE IV POLE

80-1138	Irrigation Module IV pole - for use with (80-1177) Coagulator Floorstand and Malis Irrigation System

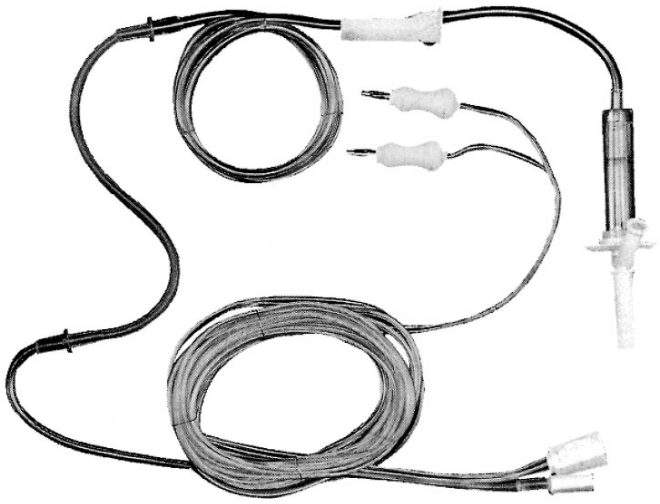
COAGULATORS, BIPOLAR, IRRIGATION MODULE

80-9100	MALIS Irrigation Module 1000 Delivers a consistent and reliable rate of fluid delivery. Rate of irrigation can be adjusted from slow to constant stream. Different rates can be set for Bipolar Cutting and Coagulation
	Accessories
80-9102	Disposable Integrated Tubing and Bipolar cord set. Banana plugs Supplied sterile 10 packs per case
80-9103	Disposable Tubing set. Supplied sterile 10 packs per case
80-9104	Disposable Integrated Tubing and Bipolar cord set. Unitised plug Supplied sterile 10 packs per case
80-9115	Connecting cable for Module 1000 to CMC-III
80-1162	Footpedal suitable for Module 1000

Tubing sets for earlier models of Irrigator are listed on page 5

IRRIGATION MODULE ACCESSORIES

Unit	Malis Irrigation Module 1000	Malis Irrigator
Code	**80-9100**	**80-1151**
Tubing set Sterile, Pack of 10	**80-9103**	**80-1165**
Cord & Tubing set – Banana plugs Sterile, Pack of 10	**80-9102**	**80-1163**
Cord & Tubing set – Unitised plug Sterile, Pack of 10	**80-9104**	**80-1189**



COAGULATORS, BIPOLAR,FLOOR STAND

80-1177	CODMAN Coagulator Floorstand, tip resistant. Conductive casters allow easy mobility. Accommodates CMC-III (80-1170) and MALIS Irrigation Module (80-1164). (Total of 2 units at one time.)

COAGULATORS, BIPOLAR, FOOTPEDAL

80-1184	MALIS CMC-III Bipolar Footpedal used with MALIS CMC-III Bipolar System (80-1172).

80-1179	CMC-III 80-1149 Footpedal to 80-1151 Irrigator & Generator Cable
80-1174	CMC-III Generator to 80-1151 Irrigator Cable
80-9115	CMC-III 80-1184 Footpedal to 80-9100 Irrigator & Generator Cable

FORCEPS BIPOLAR

ISOCOOL™ Bipolar Forceps

8010010H ISOCOOL Insulated Forceps Handle, Flat

ISOCOOL™ Bipolar Forceps-Low Profile

	Overall Length	Working Length	Tip Size
8135025S	8.5" 21cm	9cm	0.25mm
8135050S	8.5" 21cm	9cm	0.50mm
8135100S	8.5" 21cm	9cm	1.00mm
8135200S	8.5" 21cm	9cm	2.00mm
8145025S	9.5" 24cm	12cm	0.25mm
8145050S	9.5" 24cm	12cm	0.50mm
81450100S	9.5" 24cm	12cm	1.00mm
81450200S	9.5" 24cm	12cm	2.00mm
8155025S	10.5" 26cm	14cm	0.25mm
8155050S	10.5" 26cm	14cm	0.50mm
81550100S	10.5" 26cm	14cm	1.00mm
81550200S	10.5" 26cm	14cm	2.00mm

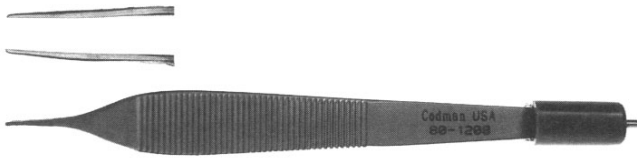
80-2926 JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width		.35mm
Length	4⅜″	(111mm)

Codman

80-2964 ADSON Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width		1mm
Length	4¾″	(120mm)



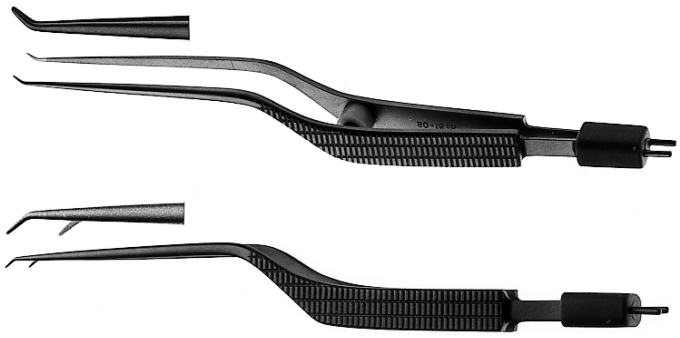
COAPTATION Non-Stick Mirror Finish Bipolar Forceps, straight.

80-2968 Small

Tip width		.25mm
Length	4″	(102mm)

CODMAN Non-Stick Mirror Finish Trigeminal Bipolar Forceps, bayonet, Titanium.

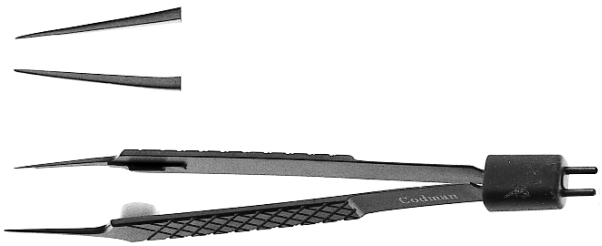
Working distance		3½″	(89mm)
Tip width			.4mm
Length		7 5/16″	(186mm)
80-2947	45° Angled up		
80-2948	45° Angled down		



FORCEPS BIPOLAR

CUSHING Non-Stick Mirror Finish Bipolar Forceps, straight.

	Tip width		1.65mm
	Length	7″	(178mm)
80-2925	Forceps only		
80-2920	Forceps with insulation		



E-SERIES* Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM. Unique tip alignment system.
Closing Pressure 75 gms. (approximate)

	Length	6″	(150mm)
80-2962	Fine	Tip width	.3mm
80-2963	Regular	Tip width	1mm

80-2924 GERALD Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width		.9mm
Length	7″	(178mm)

GREENWOOD Non-Stick Mirror Finish Bipolar and Suction Forceps, bayonet.

Working distance	3¼″	(83mm)
Tip width		1.75mm
Length	7½″	(191mm)
80-2983 Forceps		
80-2984 Forceps with insulation		

80-2911 HARDY Non-Stick Mirror Finish Bipolar Forceps, bayonet.

Working distance	4¾″	(121mm)
Tip width		.7mm
Length	8¼″	(210mm)

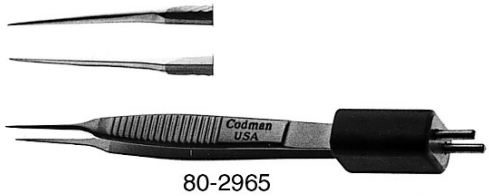
80-3060 HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.

Working distance	4¾″	(121mm)
Tip width		.7mm
Length	8¼″	(210mm)

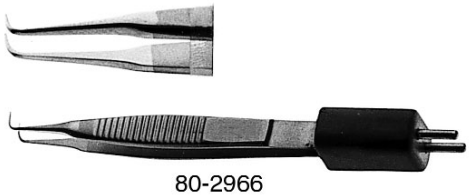
Codman

80-3060	HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.		
	Tip width		.7mm
	Length	8¼″	(210mm)

	IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.6mm
	Length	3⅝″	(92mm)
80-2965	Straight		
80-2966	Curved		



80-2965



80-2966

FORCEPS BIPOLAR

80-2991 MALIS-JENSEN Non-Stick Mirror Finish Insulated Forceps, bayonet.

Tip width		.5mm
Length	7½″	(191mm)

80-2922 MALIS Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width		.75mm
Length	5″	(140mm)

MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet.

	Working distance	3¼″	(83mm)
	Tip width		1.5mm
	Length	7″	(178mm)
80-2912	Forceps only		
80-2921	Forceps with insulation		

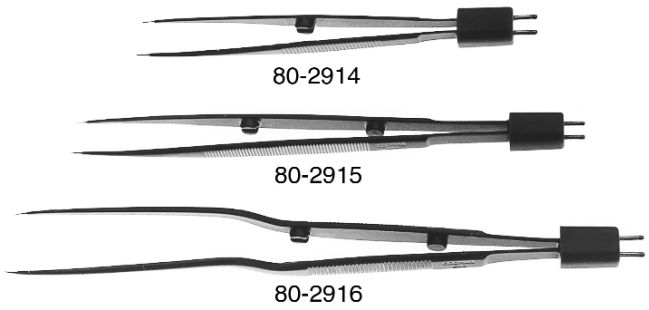
MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.

	Length	6″	(152mm)
80-2940	Fine	Tip width	.4mm
80-2945	Extra fine	Tip width	.25mm

Codman

MALIS* Non-Stick Mirror Finish Bipolar Coagulation and Cutting Forceps
Specifically designed for use with the MALIS* CMC-III (80-1170, 80-1171).
Forceps are insulated stainless steel.

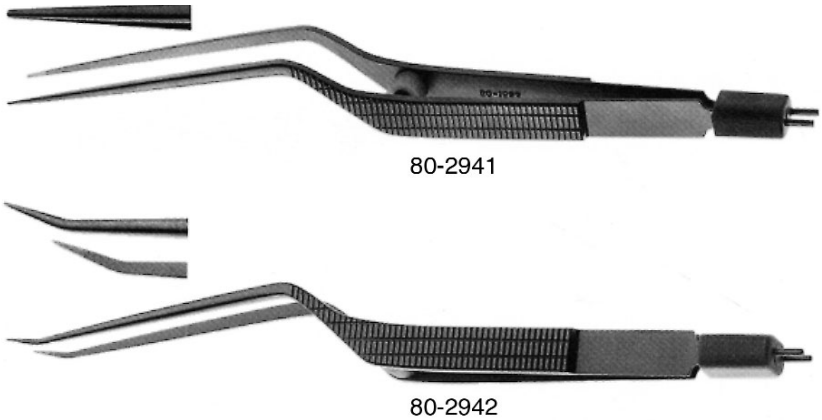
80-2914	Straight		
	Tip width	.2mm	
	Length	5½″	(140mm)
80-2915	Straight		
	Tip width	.2mm	
	Length	6¾″	(172mm)
80-2916	Bayonet		
	Tip width	.2mm	
	Length	7¾″	(197mm)



80-2914

80-2915

80-2916



80-2941

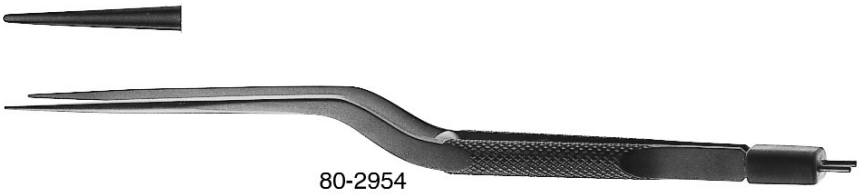
80-2942

MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM.

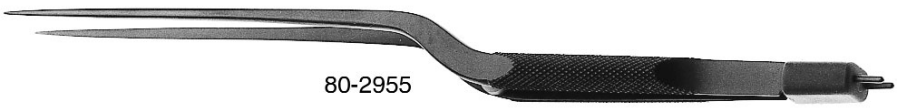
	Working distance	3″	(76mm)
	Length	8¾″	(222mm)
			Tip Width
80-2938	Straight, fine tip		.4mm
80-2939	Straight, regular tip		1.5mm
80-2941	Straight, medium tip		1mm
80-2942	Angled up, fine tip		.4mm
80-2943	Angled down, fine tip		.4mm
80-2944	Curved up, blunt tip		.6mm
80-2946	Straight, extra fine tip		.25mm

FORCEPS BIPOLAR

80-2951



80-2954



80-2955

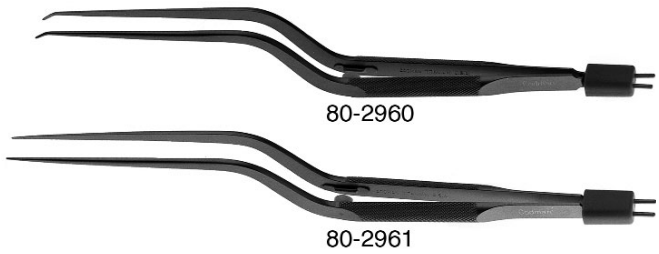
	RHOTON Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM		
	Working distance	3½″	(89mm)
	Length	8¼″	(210mm)
80-2951	Fine	Tip width	.45mm
80-2952	Regular	Tip width	1mm
	Working distance	4″	(102mm)
	Length	9″	(229mm)
80-2953	Fine	Tip width	.5mm
80-2954	Regular	Tip width	1mm
	Working distance	4¾″	(120mm)
	Length	9¾″	(248mm)
80-2955	Fine	Tip width	.7mm
	RHOTON Bipolar Forceps, bayonet, TITANIUM.		
	Working distance	3¾″	(95mm)
	Length	8⅞″	(225mm)
80-2956	Fine	Tip width	.5mm
80-2957	Medium	Tip width	.7mm
80-2958	Regular	Tip width	1.0mm
80-2959	Large	Tip width	1.5mm

RHOTON Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.

	Length	7″	(178mm)
80-2949	Fine	Tip width	.45mm
80-2950	Regular	Tip width	1mm

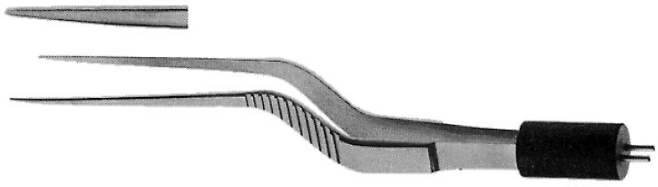
SPETZLER Non-Stick Mirror Finish Neuro-Vascular Bipolar Forceps
Titanium, bayonet

	Length	9⅞″	(251mm)
	Working distance	4″	(100mm)
			Tip size
80-2960	Bipolar Forceps,straight tip		.9mm
80-2961	Bipolar Forceps,30° angled tip		.9mm

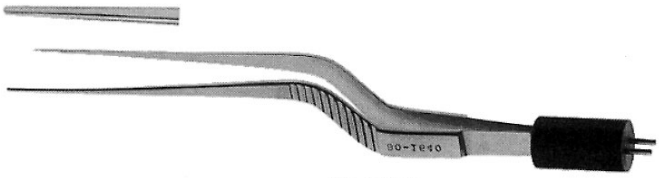


80-2967	STANDARD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.5mm
	Length	3⅝″	(92mm)

FORCEPS BIPOLAR



80-2976



80-2981

80-3085

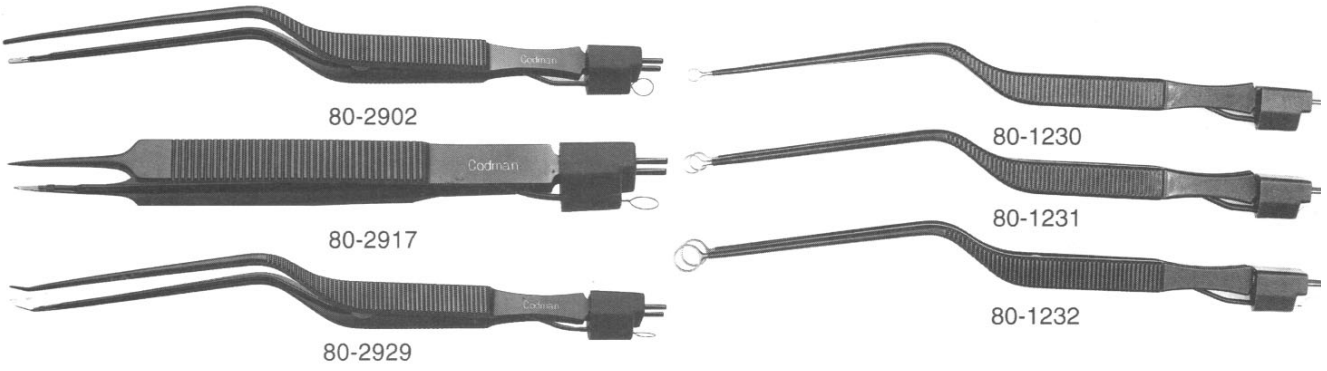
	YASARGIL Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	2½″	(64mm)
	Length	6¾″	(171mm)
80-2975	Fine	Tip width	.5mm
80-2976	Medium	Tip width	.7mm
80-2977	Regular	Tip width	1mm
80-2978	Large	Tip width	1.3mm
	Working distance	4″	(102mm)
	Length	8¼″	(210mm)
80-2979	Fine	Tip width	.5mm
80-2980	Medium	Tip width	.7mm
80-2981	Regular	Tip width	1mm
80-2982	Large	Tip width	1.3mm
	YASARGIL Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.		
	Working distance	2½″	(64mm)
	Length`	6¾″	(171mm)
80-3084	Medium	Tip width	.7mm
80-3085	Regular	Tip width	1mm
	Working distance	4″	(102mm)
	Length	8¼″	(210mm)
80-3086	Large	Tip width	1.3mm

New Codman Non Stick Mirror Finish Bipolar Insulated Forceps

Code #	Description	Style	Length	Alloy	Tip Size	Type
80-2985	Malis	Bayonet	8¾″	Titanium	.25mm	Irrigating
80-2986	Malis	Bayonet	8¾″	Titanium	.5mm	Irrigating
80-2987	Malis	Bayonet	8¾″	Titanium	.1mm	Irrigating
80-2988	Malis	Bayonet	8¾″	Titanium	.1.5mm	Irrigating
80-2989	Malis	Bayonet	8¾″	Titanium	.5mm	Irrigating
80-2990	Malis	Bayonet	7¾″	Titanium	1.5mm	Irrigating
80-2991	Malis-Jenson	Bayonet	7½″	Titanium	.5mm	Irrigating
80-2992	Malis	Bayonet	8¾″	Titanium	.4mm	Irrigating
80-2993	Malis	Bayonet	8¾″	Titanium	1mm	Irrigating
80-2994	Malis	Bayonet	8¾″	Titanium	1.5mm	Irrigating
80-2995	Malis	Straight	6″	Titanium	.4mm fine	Irrigating
80-2996	Malis	Bayonet	10¾″	Titanium	.25mm	Irrigating
80-2997	Malis	Bayonet	10¾″	Titanium	.5mm	Irrigating
80-3060	Hardy	Bayonet	8¼″	Titanium	.7mm	Irrigating
80-3063	Rhoton	Bayonet	8¼″	Titanium	.5mm	Irrigating
80-3064	Rhoton	Bayonet	8¼″	Titanium	.7mm	Irrigating
80-3070	Rhoton	Bayonet	9″	Titanium	.25mm	Irrigating
80-3072	Rhoton	Bayonet	9″	Titanium	.7mm	Irrigating
80-3073	Rhoton	Bayonet	9″	Titanium	1mm	Irrigating
80-3076	Rhoton	Straight	7″	Titanium	.7mm	Irrigating
80-3078	Rhoton	Bayonet	10¾″	Titanium	.5mm	Irrigating
80-3084	Yasargil	Bayonet	6¾″	Titanium	.7mm	
80-3085	Yasargil	Bayonet	6¾″	Titanium	1mm	
80-3086	Yasargil	Bayonet	8¼″	Titanium	1.3mm	

FORCEPS, BIPOLAR IRRIGATING

MALIS Non-Stick Mirror Finish Bipolar Irrigating Forceps, used in conjunction with the Malis Inrrigation Module (80-1164)



Code #	Style	Length	Alloy	Tip Configuration	Tip Size
80-1230	Bayonet	8¾″ (22.4cm)	Insulated Titanium	Circular Loop	5mm
80-1230	Bayonet	8¾” (22.4cm)	Insulated Titanium	Circular Loop	5mm
80-1231	Bayonet	8¾″ (22.4cm)	Insulated Titanium	Circular Loop	7mm
80-1232	Bayonet	8¾″ (22.4cm)	Insulated Titanium	Circular Loop	10mm
80-2900	Bayonet	8½″ (21.8cm)	Insulated Stainless	Straight	0.70mm
80-2901	Bayonet	7¾″ (19.7cm)	Insulated Stainless	Straight	1.0mm
80-2902	Bayonet	8½″ (21.8cm)	Titanium	Straight	0.50mm
80-2903	Bayonet	7¾″ (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2904	Bayonet	8¾″ (22.4cm)	Titanium	Straight	1.5mm
80-2905	Bayonet	8¾″ (22.4cm)	Titanium	Straight	1.0mm
80-2906	Bayonet	8¾″ (22.4cm)	Titanium	Straight	0.25mm
80-2913	Straight	5″ (13.9cm)	Insulated Stainless	Straight	0.75mm
80-2917	Straight	5″ (13.9cm)	Insulated Stainless	Straight	0.25mm
80-2918	Straight	7″ (18cm)	Insulated Stainless	Straight	0.25mm
80-2919	Bayonet	7¾″ (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2929	Bayonet	8¾″ (22.4cm)	Titanium	Angle Up	0.50mm
80-2930	Bayonet	8¾″ (22.4cm)	Titanium	Angle Down	0.50mm
80-2931	Bayonet	8¾″ (22.4cm)	Titanium	90° Blunt Curve Up	0.75mm
80-2932	Bayonet	8¾″ (22.4cm)	Titanium	90° Blunt Curve Down	0.75mm
80-2985	Irrigating Bayonet	8¾″ (22.4cm)	Insulated Titanium	Straight	0.25mm
80-2986	Irrigating Bayonet	8¾″ (22.4cm)	Insulated Titanium	Straight	0.5mm
80-2987	Irrigating Bayonet	8¾″ (22.4cm)	Insulated Titanium	Straight	1mm
80-2988	Irrigating Bayonet	8¾″ (22.4cm)	Insulated Titanium	Straight	1.5mm
80-2989	Irrigating Bayonet	8¾″ (22.4cm)	Insulated Titanium	Angle Up	0.5mm
80-2990	Bayonet	7¾″ (19.7cm)	Insulated	Straight	1.5mm
80-2991	Bayonet	7½″ (19.1cm)	Insulated	Straight	5mm
80-2992	Bayonet	7½″ (19.1cm)	Insulated Titanium	Straight	4mm
80-2993	Bayonet	7½″ (19.1cm)	Insulated Titanium	Straight	1mm
80-2994	Bayonet	7½″ (19.1cm)	Insulated Titanium	Straight	1.5mm
80-2995	Straight	6″ (15cm)	Insulated Titanium	Straight	4mm
80-2996	Irrigating Bayonet	10¾″ (27.3cm)	Insulated Titanium	Straight	25mm
80-2997	Irrigating Bayonet	10¾″ (27.3cm)	Insulated Titanium	Straight	5mm

FORCEPS, BIPOLAR IRRIGATING

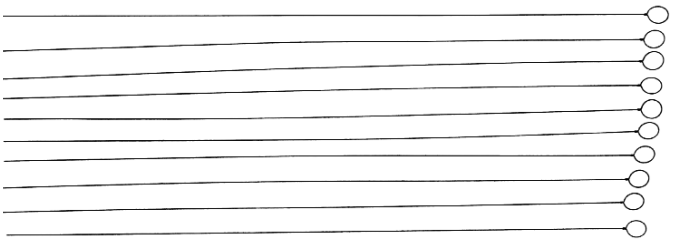
The nine patterns of RHOTON Bipolar Irrigating Forceps include two bayonet forceps with four tip sizes each, and one straight forceps. The unique feature of these forceps is that the irrigation pipe is completely recessed into the right blade of the forceps. This offers the surgeon increased visibility at the forceps tips.

The bayonet pattern are offered in two lengths, short (8cm working distance) and long (9cm working distance), which are needed for superficial and deep operations. Each length is offered with four distal tip widths.

RHOTON Non-Stick Mirror Finish Bipolar Irrigation Forceps, Titanium

	Working Distance	3.2″	(8cm)
	Length	8¼″	(21cm)
80-2907	Bayonet	Tip Width	0.25mm
80-2933	Bayonet	Tip Width	0.50mm
80-2908	Bayonet	Tip Width	0.70mm
80-2934	Bayonet	Tip Width	1.00mm
	Working Distance	3.7″	(9.5cm)
	Length	9″	(22.5cm)
80-2909	Bayonet	Tip Width	0.25mm
80-2935	Bayonet	Tip Width	0.50mm
80-2937	Straight Length	7″	(18cm)
		Tip Width	.7mm

STYLETS



80-1130 Stylets – set of 10/replacements for preventive maintenance and care of the microtube on MALIS & RHOTON Bipolar Irrigation Forceps.

CLIPS, ANEURYSM

SUNDT-KEES Slim-Line Aneurysm Clips non-magnetic MP35N stainless steel, high minimum closing pressure, slim jaw and low profile spring design for optimal visibility.

Straight

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*
20-1600	1.016	5	5	328
20-1601	1.016	7	6	299
20-1602	1.016	9	7	271
20-1603	1.016	12	8	242
20-1604	1.5	15	9	219
20-1605	1.88	20	10	213
20-1606	1.88	25	11	184

Slightly Curved

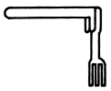
20-1610	1.143	8	7	265
20-1611	1.143	10	7	247
20-1612	1.143	12	7	236
20-1613	1.5	14	7	219
20-1614	1.5	16	9	207
20-1615	1.5	20	10	196

Curved

20-1620	1.143	7.5	6	282
20-1621	1.143	9.5	6	265
20-1622	1.143	11.5	7	253

Right Angle

20-1626	1.5	5	6	224
20-1627	1.5	7.5	6	201
20-1628	1.5	10	6	178



Sharp Right Angle

20-1682	1.88	6	5	270
20-1683	1.88	9	5	220
20-1684	1.88	12	5	170

30° Forward Curve

20-1635	1.016	8	5	276
20-1636	1.016	12	6	265
20-1637	1.5	16	9	247

*Measured at mid-base with 1.5mm opening.

Sideward Angle

20-1641	1.016	7	6	265
20-1642	1.016	9	7	247
20-1643	1.016	12	7	236
20-1644	1.5	15	8	219

30° Forward Angle

20-1648	1.016	7	6	270
20-1649	1.016	9	7	259
20-1650	1.016	12	7	242
20-1651	1.5	15	8	230

Bayonet (Straight)

20-1655	1.016	5	5	183
20-1656	1.016	7	6	178
20-1657	1.016	9	7	173
20-1658	1.016	12	8	161
20-1660	1.5	20	9	145
20-1661	1.5	25	10	140

Super Bayonet

20-1675	1.016	5	7	170
20-1677	1.016	9	7	150
20-1678	1.010	12	8	140
20-1679	1.88	15	9	130
20-1680	1.88	20	10	120

Bayonet (30° Curved Forward-Right)

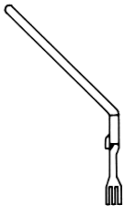
20-1665	1.016	7	5	230
20-1666	1.016	9	6	196

Bayonet (30° Curved Forward-Left)

20-1670	1.016	7	5	230
20-1671	1.016	9	6	196

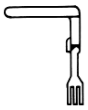
Fenestrated Straight, 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*	Tray Number
20-1721	1.88	6	7	245	2
20-1722	1.88	9	8	230	2
20-1723	1.88	12	9	215	2



Fenestrated 45° Angle, 4mmOpening

20-1727	1.88	4	6	250	2
20-1728	1.88	9	8	225	2
20-1729	1.88	12	9	200	2
20-1730	1.78	16	8	175	2
20-1731	1.78	20	9	150	2
20-1732	1.78	24	10	125	2

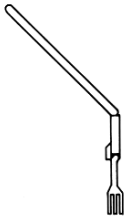


Fenestrated 90° Angle, 4mmOpening

20-1718	1.5	6	5	250	2
20-1719	1.5	9	5	230	2

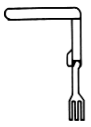
Fenestrated, Straight, 6mm Opening

20-1686	1.88	9	8	185	2
20-1687	1.88	12	9	170	2
20-1689	1.88	20	10	140	2
20-1690	1.88	24	11	125	2



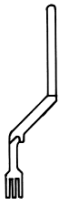
Fenestrated 45° Angle, 6mmOpening

20-1692	1.88	9	8	210	2
20-1696	1.78	24	11	110	2



Fenestrated 90° Angle, 6mmOpening

20-1697	1.016	6	6	250	2
20-1699	1.016	12	6	210	2



Fenestrated Bayonet, Straight, 6mm Opening

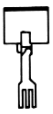
	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*	Tray Number
20-1733	1.016	6	7	170	2
20-1734	1.016	9	8	160	2
20-1735	1.016	12	9	150	2
20-1736	1.88	15	10	140	2

Fenestrated Straight, 3mm Extended Tandem, 6mm Opening

20-1701	1.88	9	8	145	3

Fenestrated Straight, 5mm Extended Tandem, 6mm Opening

20-1705	1.88	12	10	130	3



Graft, 4mm Diameter

20-1715	1.016	3	4	200	3
20-1716	1.016	5	4	200	3
20-1717	1.016	7	4	200	3

Reinforcing 0° Angle, 6mm Wide

20-1740	1.88	6	5	300	3
20-1742	1.88	18	5	150	3

Reinforcing 30° Angle, 6mm Wide

20-1745	1.88	6	5	300	3
20-1746	1.88	12	5	200	3
20-1747	1.88	18	5	150	3

Reinforcing 60° Angle, 6mm Wide

20-1750	1.88	6	5	300	3

CLIPS, ANEURYSM

20-5203

20-5205

20-5206

SUNDT SLIM-LINE Aneurysm Clip Appliers bayonet, stainless steel. Applies SUNDT SLIM-LINE Clips only.

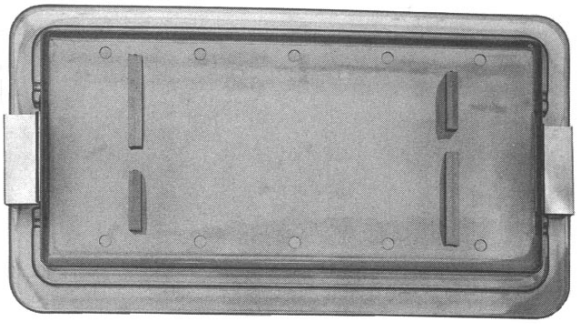
	Tip	Length	Working Distance
20-5203	single hinge	8″ (20cm)	3¾″ (9.5cm)
20-5205	fixed head	8″ (20cm)	3¾″ (9.5cm)
20-5206	hinged head	8″ (20cm)	3¾″ (9.5cm)

80-1840 SUNDT AVM Micro Clip Tray
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual AVM clips in storage cubes. Code numbers and drawings of clips appear on bottom of tray.Rubber holders on cover secure appliers.

Length	12½″	(33cm)
Width	7″	(18cm)
Depth	2″	(5cm)

SUNDT-KEES MICROCARE Sterilizing/Storage Trays
System of Three Lightweight ULTEM* Trays. Soft rubber bars to hold individual clips; code number and drawing of each clip on bottom of tray floor; cover incorporates a holder for applier

		Size	
80-1841	#1	12½" x 7" x 2"	(33cm x 18cm x 5cm)
80-1842	#2	12½" x 7" x 2"	(33cm x 18cm x 5cm)
80-1843	#3	12½" x 7" x 2"	(33cm x 18cm x 5cm)



Each Tray will hold the following clips:

TRAY #1

Straight
20-1600 5mm
20-1601 7mm
20-1602 9mm
20-1603 12mm
20-1604 15mm
20-1605 20mm
20-1606 25mm

Bayonet
20-1655 5mm
20-1656 7mm
20-1657 9mm
20-1658 12mm
20-1660 20mm
20-1661 25mm

SuperBayonet
20-1675 5mm
20-1677 9mm
20-1678 12mm
20-1679 15mm
20-1680 20mm

30°Forward Angle
20-1648 7mm
20-1649 9mm
20-1650 12mm
20-1651 15mm

Sideward Angle
20-1641 7mm
20-1642 9mm
20-1643 12mm
20-1644 15mm

Slightly Curved
20-1610 8mm
20-1611 10mm
20-1612 12mm
20-1613 14mm
20-1614 16mm
20-1615 20mm

TRAY #2

Fenestrated Straight, 4mm
20-1721 6mm
20-1722 8mm
20-1723 12mm

Fenestrated 45°, 4mm
20-1727 6mm
20-1728 9mm
20-1729 12mm
20-1730 16mm
20-1731 20mm
20-1732 24mm

Fenestrated 90°, 4mm
20-1718 6mm
20-1719 9mm
20-1720 12mm

30° Forward Curve
20-1635 8mm
20-1636 12mm
20-1637 16mm

Fenestrated Bayonet 6mm
20-1733 6mm
20-1734 9mm
20-1735 12mm
20-1736 15mm

Fenestrated, Straight, 6mm
20-1686 9mm
20-1687 12mm
20-1689 20mm
20-1690 24mm

Fenestrated 45°, 6 mm
20-1692 9mm
20-1696 24mm

TRAY #2 (Continued)

Fenestrated 90°, 6mm
20-1697 6mm
20-1699 12mm

Right Angle
20-1626 5mm
20-1627 7.5mm
20-1628 10mm

Sharp Right Angle
20-1682 6mm
20-1683 9mm
20-1684 12mm

TRAY #3

Reinforcing Clips
20-1740 6mm, 0°
20-1742 18mm, 0°
20-1745 6mm, 30°
20-1746 12mm, 30°
20-1747 18mm, 30°
20-1750 6mm, 60°

Fenestrated Tandem (6mm)
20-1701 9mm, 3mm extended
20-1705 12mm, 5mm extended

Graft **4mm**
20-1715 3mm
20-1716 5mm
20-1717 7mm

Curved
20-1620 7.5mm
20-1621 9.5mm
20-1622 11.5mm

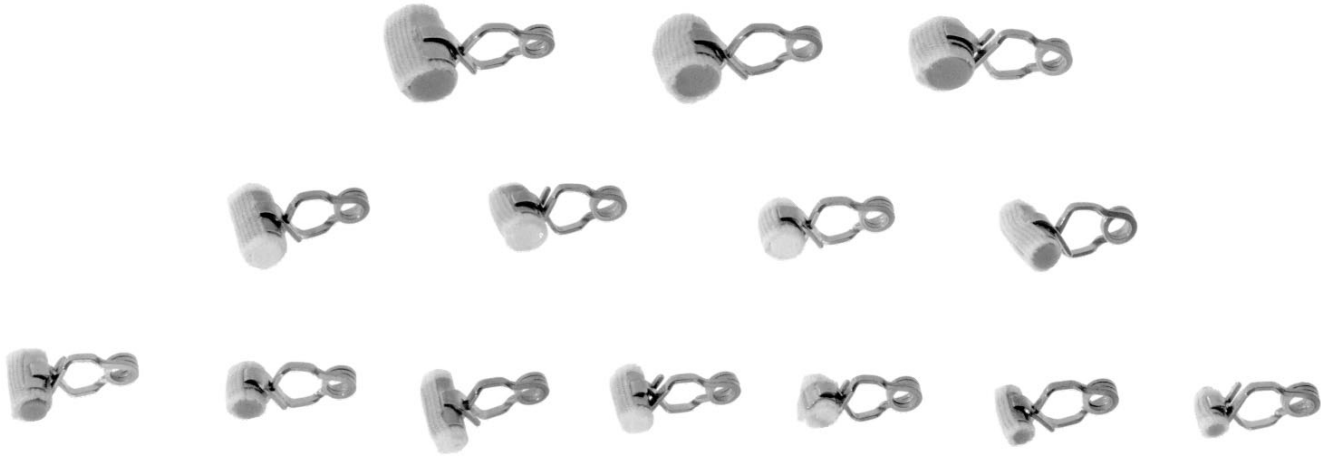
Bayonet, 30° Curved Forward
20-1665 7 mm R
20-1666 9mm R
20-1670 7mm L
20-1671 9mm L Aneurysm Clips

CLIPS, ANEURYSM

SUNDT AVM Micro Clip System, Single piece construction, non-magnetic, MRI compatible, MP35N stainless steel, triple coiled, high minimum closing pressure. Used for hemostasis of small perforating vessels during surgical excision of arterio-venous malformations. Use with the corresponding Sundt AVM Micro Clip Applier.

Product Code	Clip No.	Blade Width (mm)	Blade Length (mm)	Opening at Tip (mm)	Minimum Closing Pressure (grams)
20-1801	#1	.15	1	.5	10
20-1802	#2	.20	1.5	.75	20
20-1803	#3	.25	2	1.0	30
20-1804	#4	.30	3	1.5	40
20-1805	#5	.36	4	2	50
	The SUNDT AVM Micro Clip Applier applies the corresponding SUNDT AVM Micro Aneurysm Clip #1, #2, #3, #4 and #5. The applier is designed with a latch mechanism to lock the aneurysm clip in the jaws of the applier.				
20-1850	#1				
20-1851	#2				
20-1852	#3				
20-1853	#4				
20-1854	#5				
80-1840	The SUNDT AVM Micro Clip Sterilisation Tray holds several SUNDT AVM Micro Clips #1, #2, #3, #4 and #5. Clip outline and catalog number on tray for easy inventory control.				

20-1850



SUNDT SLIM-LINE GRAFT CLIPS
PTFE interliner, non-magnetic MP35N steel.
Use SUNDT SLIM-LINE Aneurysm Clip Appliers 20-5203. (See page 22)

	Blade Diameter		Blade Length
20-1760	2mm	x	3mm
20-1761	2mm	x	5mm
20-1762	2.5mm	x	3mm
20-1763	2.5mm	x	5mm
20-1764	2.5mm	x	7mm
20-1765	3mm	x	3mm
20-1766	3mm	x	5mm
20-1767	3mm	x	7mm
20-1768	3.5mm	x	3mm
20-1769	3.5mm	x	5mm
20-1770	3.5mm	x	7mm
20-1715	4mm	x	3mm
20-1716	4mm	x	5mm
20-1717	4mm	x	7mm
20-1771	5mm	x	3mm
20-1772	5mm	x	5mm
20-1773	5mm	x	7mm

CLIPS, ANEURYSM

80-1844 SUNDT SLIM-LINE Graft Clip Tray. Sterilising/Storage Tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers of clips appear on bottom of tray. Rubber holders on cover secure appliers.

Length	12½″	(33cm)
Width	7″	(18cm)
Depth	2″	(5cm)

SUNDT SLIM-LINE Mini Aneurysm Clips
Use corresponding #6 (20-1855) or #7 (21-1856) mini Aneurysm Clip Appliers.

Slightly Curved 20-1824 | Straight 20-1825 | Bayonet 20-1826 | Right Angle 20-1827 | Forward Angle 20-1828 | Sideward Angle 20-1829 | Slightly Curved 20-1831 | Straight 20-1832 | Bayonet 20-1833 | Right Angle 20-1834 | Forward Angle 20-1835 | Sideward Angle 20-1836

Catalog Number	Configuration	Blade Length
20-1821	#6 Clip, Straight	7mm
20-1822	#6 Clip, Slightly Curved	7mm
20-1823	#6 Clip, Forward Curve	6mm
20-1824	#6 Clip, Slightly Curved	6mm
20-1825	#6 Clip, Straight	6mm
20-1826	#6 Clip, Bayonet	4.5mm
20-1827	#6 Clip, Right Angle	4.5mm
20-1828	#6 Clip, Forward Angle	5mm
20-1829	#6 Clip, Side Angle	5mm
20-1831	#7 Clip, Slightly Curved	9mm
20-1832	#6 Clip, Straight	10mm
20-1833	#7 Clip, Bayonet	6mm
20-1834	#7 Clip, Right Angle	5.5mm
20-1835	#7 Clip, Forward Angle	8.5mm
20-1836	#7 Clip, Side Angle	10mm
20-1837	#7 Clip, Forward Curve	9.5mm
20-1838	#6 Clip, Straight	4mm
20-1839	#7 Clip, Slightly Curved	9.5mm

Codman

80-1835 SUNDT SLIM-LINE Mini Aneurysm Clip Microcare Storage/Sterilising Tray. For #6 and #7 SUNDT SLIM-LINE mini aneurysm clips and appliers. Clip outline and catalog number on tray for easy inventory control.

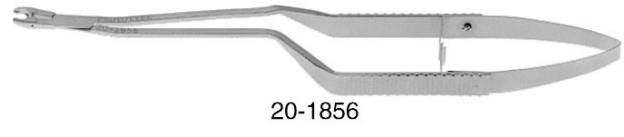
Length	12½″	(33cm)
Width	7″	(18cm)
Depth	2″	(5cm)

SUNDT SLIM-LINE Temporary Vessel Clips used for temporary vascular occlusion during intracranial surgical procedures. Non-magnetic, MP35N, MRI compatible, gold color.

Applied with #6 and #7 Sundt Slim-Line Mini Clip Appliers (20-1855, 20-1856). See page —.

Catalog Number	Configuration	Width Dimension	Blade Length	*Grams/ Pressure	Identi-fication	Applier
20-1860	#6 Clip, Slightly Curved	0.5mm	6mm	50-80	Gold	#6, **20-1855**
20-1861	#6 Clip, Straight	0.5mm	6mm	50-80	Gold	#6, **20-1855**
20-1862	#6 Clip, Side Angle	0.5mm	5mm	65-95	Gold	#6, **20-1855**
20-1863	#7 Clip, Slightly Curved	0.5mm	9mm	50-80	Gold	#7, **20-1856**
20-1864	#7 Clip, Straight	0.5mm	10mm	50-80	Gold	#7, **20-1856**
20-1865	#7 Clip, Bayonet	0.5mm	6mm	50-80	Gold	#7, **20-1856**
20-1866	#7 Clip, Right Angle	0.5mm	5.5mm	60-90	Gold	#7, **20-1856**
20-1867	#7 Clip, Side Angle	0.75mm	10mm	50-80	Gold	#7, **20-1856**
20-1868	#7 Clip, Straight	0.5mm	15mm	50-80	Gold	#7, **20-1856**
20-1869	#7 Clip, Slightly Curved	0.5mm	15mm	50-80	Gold	#7, **20-1856**
20-1870	#6 Clip, Straight	0.5mm	7mm	55-85	Gold	#6, **20-1855**
20-1871	#7 Clip, Slightly Curved	0.5mm	9.5mm	50-80	Gold	#7, **20-1856**
20-1872	#6 Clip, Forward Curve	0.5mm	6mm	50-80	Gold	#6, **20-1855**
20-1873	#7 Clip, Forward Curve	0.5mm	9.5mm	50-80	Gold	#7, **20-1856**
20-1874	#6 Clip, Slightly Curved	0.5mm	7mm	50-80	Gold	#6, **20-1855**

CLIPS, ANEURYSM

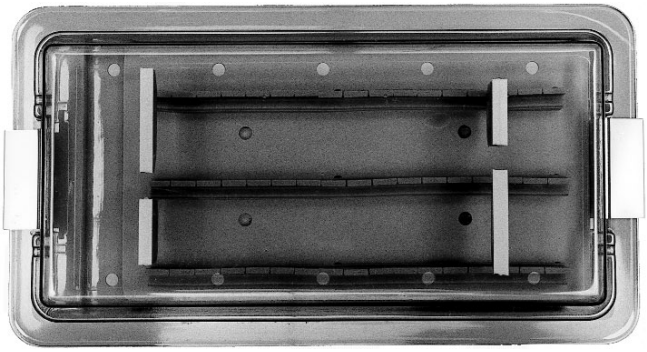


20-1856

20-1855

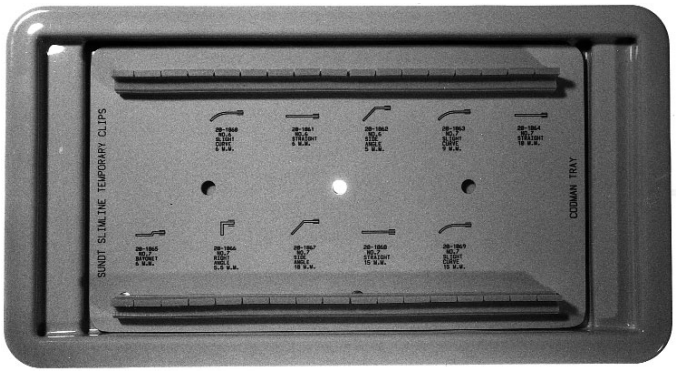
SUNDT SLIM-LINE Mini Aneurysm Clip Appliers
Applies the corresponding, #6 or #7 mini aneurysm clips only.

20-1855 Mini Aneurysm Clip Applier #6
20-1856 Mini Aneurysm Clip Applier #7



80-1838 Universal Aneurysm Clip Storage/Sterilising Case. Made of molded polyethermide, for most designs of aneurysm clips and clip appliers. Rubber locking grips securely hold aneurysm clips. Rubber grips on the cover hold 2 Aneurysm Clip Appliers in place.

Length	12½″	(33cm)
Width	7″	(18cm)
Depth	2″	(5cm)

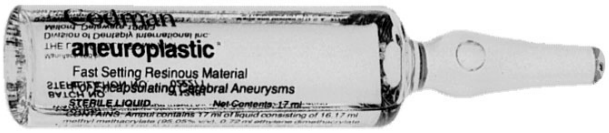


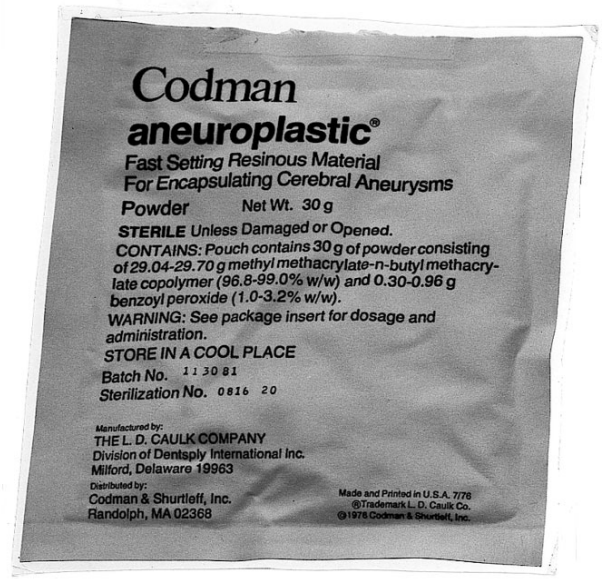
80-1845 SUNDT SLIM-LINE Temporary Clip Tray Sterilising/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure appliers.

Length	12½″	(33cm)
Width	7″	(18cm)
Depth	2″	(5cm)

Codman

43-1060 ANEUROPLASTIC Kit, two complete sets consists of two bags sterile powder (net weight 30 grams each), two ampules sterile liquid (net contents 17 milliliters each), and two sterile matrix bags.




Codman
aneuroplastic®
Fast Setting Resinous Material
For Encapsulating Cerebral Aneurysms
Powder Net Wt. 30 g
STERILE Unless Damaged or Opened.
CONTAINS: Pouch contains 30 g of powder consisting of 29.04-29.70 g methyl methacrylate-n-butyl methacrylate copolymer (96.8-99.0% w/w) and 0.30-0.96 g benzoyl peroxide (1.0-3.2% w/w).
WARNING: See package insert for dosage and administration.
STORE IN A COOL PLACE
Batch No. 11 30 81
Sterilization No. 0816 20
Manufactured by:
THE L. D. CAULK COMPANY
Division of Dentsply International Inc.
Milford, Delaware 19963
Distributed by:
Codman & Shurtleff, Inc.
Randolph, MA 02368
Made and Printed in U.S.A. 7/76
®Trademark L. D. Caulk Co.
©1976 Codman & Shurtleff, Inc.

CLIPS, SCALP

20-1032

20-1035

20-1032 LEROY Scalp Clips, sterile, disposable, plastic.
Adult
10 clips/package
20 packages/case
20-5117 LEROY Clip Applying Forcep.

20-1035 Infant size
10 clips/package
20 packages/case
Use with 20-5120 LEROY Clip Applying Forcep.

20-1034 LEROY-RANEY Scalp Clips, sterile, disposable, plastic.
10 clips/package
20 packages/case
Use with 20-5117 LEROY Clip Applying Forcep.

RANEY Scalp Clips

20-1025 Stainless steel.
12 clips/package

RANEY Scalp Clips

20-1037 Sterile, disposable, plastic.
10 clips/package
20 packages/case

Use with 20-5115 RANEY Clip Applying Forcep.

CODMAN DISPOSABLE SCALP CLIP APPLIER, sterile, single use system designed to permit rapid application of scalp clips to the scalp flap for hemostasis during a craniotomy procedure. The applier is designed for one hand use with 12 pre-loaded Leroy-Raney design clips which are easily removed with specially designed CODMAN Disposable Scalp Clip Removal Forceps.

20-1038 CODMAN Disposable Scalp Clip Applier (10 per box)

20-1039 CODMAN Disposable Scalp Clip Removal Forceps

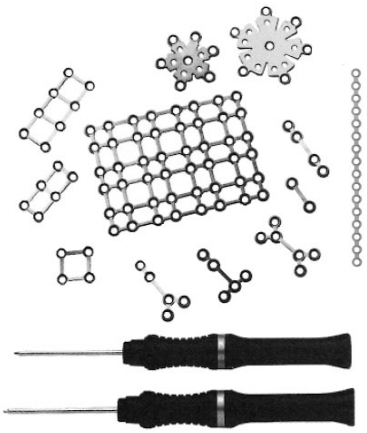
LeROY Scalp Clip Applying Forceps

20-5117 Adult size for use with 20-1032 or 20-1034 LeROY clips.
Length 7¼″ (184mm)

20-5120 Infant size for use with 20-1035 Infant LeROY clips.
Length 7¼″ (184mm)

20-5115 RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.
Length 6¼″ (159mm)

CRANIAL FIXATION, BIOPLATE



1.5mm BIOPLATE Neurosurgery Fixation System. Designed for neurosurgeons.

Plates

	Code #	Description
1 pkg. of 5 ea.	**81-2000**	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	**81-2001**	Straight, 4 Hole, Bar, 19mm
1 pkg. of 1 ea.	**81-2002**	Y Plate, 5 Hole, Bar, 18mm
1 pkg. of 1 ea.	**81-2003**	X Plate, 6 Hole, Bar, 17mm
1 pkg. of 1 ea.	**81-2004**	T Plate, 5 Hole, Bar, 15mm
1 pkg. of 1 ea.	**81-2005**	Burr Cover, 6 Hole, 12mm, Flat-Rigid
1 pkg. of 1 ea.	**81-2006**	Burr Cover, 6 Hole, 18mm, Flat-Rigid
1 pkg. of 1 ea.	**81-2053**	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	**81-2054**	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	**81-2055**	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	**81-2056**	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	**81-2007**	Box Car, 4 Hole, 10 x 10mm
1 pkg. of 1 ea.	**81-2008**	Box Car, 6 Hole, 8 x 17mm
1 pkg. of 1 ea.	**81-2009**	Box Car, 8 Hole, 10 x 24mm
1 pkg. of 1 ea.	**81-2010**	Lattice, 48 Hole, 32 x 44mm
1 pkg. of 1 ea.	**81-3018**	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	**81-3059**	8 Hole Orbital Plate
1 pkg. of 1 ea.	**81-3060**	16 Hole Straight Plate
1 pkg. of 1 ea.	**81-3180**	Shunt Burr Hole Cover, 1.5mm

Velocity Self Drilling Screws

81-2065	1.5mm X3mm	1PK
81-2066	1.5mm X 4mm	1PK
81-2067	1.5mm X 5mm	1PK
81-2071	1.5mm X3mm	5PK
81-2072	1.5mm X 4mm	5PK
81-2073	1.5mm X 5mm	5PK
81-2079	1.5mm X 4mm	50PK

Standard Screws

1 pkg. of 5 ea.	**81-2011**	1.5mm screw-3mm
1 pkg. of 5 ea.	**81-2012**	1.5mm screw-4mm
1 pkg. of 5 ea.	**81-2013**	1.5mm screw-5mm
1 pkg. of 5 ea.	**81-2014**	1.5mm screw-6mm
1 pkg. of 5 ea.	**81-2015**	1.5mm screw-8mm
1 pkg. of 5 ea.	**81-2016**	1.5mm screw-10mm
1 pkg. of 5 ea.	**81-2017**	1.8mm screw-Emergency
1 pkg. of 1 ea.	**81-3011**	1.5mm screw-3mm
1 pkg. of 1 ea.	**81-3012**	1.5mm screw-4mm
1 pkg. of 1 ea.	**81-3013**	1.5mm screw-5mm
1 pkg. of 1 ea.	**81-3014**	1.5mm screw-6mm
1 pkg. of 1 ea.	**81-3015**	1.5mm screw-8mm
1 pkg. of 1 ea.	**81-3016**	1.5mm screw-10mm
1 pkg. of 1 ea.	**81-3017**	1.8mm screw-Emergency

Instruments

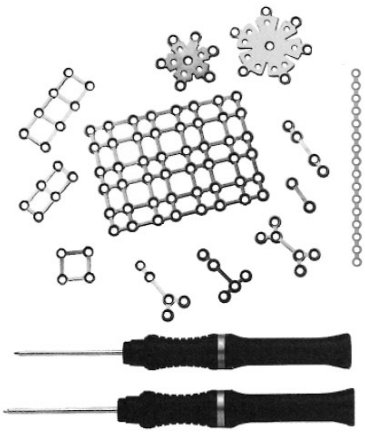
	Code #	Description
1 ea.	**81-2021**	1.5mm Screwdriver with Blade, Std.
1 ea.	**81-2027**	1.5mm Screwdriver Blade, Std.
1 ea.	**81-3100**	1.5mm Screwdriver with Blade, Large
1 ea.	**81-3101**	1.5mm Screwdriver Blade, Large
1 ea.	**81-2022**	Plate Bender
1 ea.	**81-2023**	Plate Cutter-Med.
1 ea.	**81-2024**	Forceps Angled
1 ea.	**81-3105**	Plate and Screw Container
1 ea.	**81-3119**	Sterilizing Container-Neuro

Drill Bits

1 ea.	**81-2018**	Drill Bit, 1.2mm, 4.5mm, standard low speed drill
1 ea.	**81-2019**	Drill Bit, 1.2mm, 6mm, standard low speed drill
1 ea.	**81-2020**	Drill Bit, 1.2mm, 10mm, standard low speed drill
1 ea.	**81-3061**	Drill Bit, 1.2mm, 4.5mm craniotomes
1 ea.	**81-3062**	Drill Bit, 1.2mm, 6mm craniotomes
1 ea.	**81-3077**	Drill Bit, 1.2mm, 4.5mm Midas Rex Classic
1 ea.	**81-3078**	Drill Bit, 1.2mm, 6mm Midas Rex Classic
1 ea.	**81-3083**	Drill Bit, 1.2mm, 4.5mm Midas Rex III
1 ea.	**81-3084**	Drill Bit, 1.2mm, 6mm Midas Rex III

BIO-100 Set

1 ea.	**81-2027**	BIO-100 Screw Driver Blade, STD
1 ea.	**81-3175**	BIO-100 1.5mm Tray Insert
5 ea.	**81-3164**	BIO-100 Screws, 1.5mm x 4.5mm
1 ea.	**81-3165**	BIO-100 Screws, 1.5mm x 4.5mm
5 ea.	**81-3135**	BIO-100 Two Hole Plate
1 ea.	**81-3131**	BIO-100 Two Hole Plate



1.9mm BIOPLATE Neurosurgery Fixation System. Designed for neurosurgeons.

Plates

	Code #	Description
1 pkg. of 5 ea.	**81-3027**	Straight Plate, 2 hole, 12mm
1 pkg. of 1 ea.	**81-3028**	Straight Plate, 4 hole, 20mm
1 pkg. of 1 ea.	**81-3029**	Y Plate, 5 Hole, 19mm
1 pkg. of 1 ea.	**81-3030**	X Plate, 6 Hole, 18mm
1 pkg. of 1 ea.	**81-3031**	T Plate, 5 Hole, 16mm
1 pkg. of 1 ea.	**81-3032**	Burr Hole Cover, 6 Hole, 12mm, Flat - Rigid
1 pkg. of 1 ea.	**81-3033**	Burr Hole Cover, 6 Hole, 18mm, Flat - Rigid
1 pkg. of 1 ea.	**81-2046**	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	**81-2047**	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	**81-2048**	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	**81-2049**	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	**81-3034**	Boxcar Plate, 4 Hole, 11 x 11mm
1 pkg. of 1 ea.	**81-3035**	Boxcar Plate, 6 Hole, 9 x 18mm
1 pkg. of 1 ea.	**81-3036**	Boxcar Plate, 8 Hole, 11 x 25mm
1 pkg. of 1 ea.	**81-3048**	Straight Plate, 2 Hole, 12mm
1 pkg. of 1 ea.	**81-3161**	Straight Plate, 16 Hole, 1.9mm
1 pkg. of 1 ea.	**81-3181**	Shunt Burr Hole Cover, 1.9mm

Standard Drilling Screws

1 pkg. of 5 ea.	**81-3037**	1.9mm screw-3mm long
1 pkg. of 5 ea.	**81-3038**	1.9mm screw-4mm long
1 pkg. of 5 ea.	**81-3039**	1.9mm screw-5mm long
1 pkg. of 5 ea.	**81-3040**	1.9mm screw-6mm long
1 pkg. of 5 ea.	**81-3041**	1.9mm screw-8mm long
1 pkg. of 5 ea.	**81-3042**	1.9mm screw-10mm long
1 pkg. of 5 ea.	**81-3043**	2.3mm screw-5mm long Emergency
1 pkg. of 1 ea.	**81-3049**	1.9mm screw-3mm long
1 pkg. of 1 ea.	**81-3050**	1.9mm screw-4mm long
1 pkg. of 1 ea.	**81-3051**	1.9mm screw-5mm long
1 pkg. of 1 ea.	**81-3052**	1.9mm screw-6mm long
1 pkg. of 1 ea.	**81-3053**	1.9mm screw-8mm long
1 pkg. of 1 ea.	**81-3054**	1.9mm screw-10mm long
1 pkg. of 1 ea.	**81-3055**	2.3mm screw- 5mm long Emergency

Velocity Self Drilling Screws

81-2068	1.9 X 3mm	1PK
81-2069	1.9 X 4mm	1PK
81-2070	1.9 X 5mm	1PK
81-2075	1.9 X 3mm	5PK
81-2076	1.9 X 4mm	5PK
81-2077	1.9 X 5mm	5PK
81-2080	1.9 X 4mm	50PK

Instruments

	Code #	Description
1 ea.	**81-3046**	1.9mm Screwdriver with Blade, Std.
1 ea.	**81-2034**	1.9mm Screwdriver Blade, Std.
1 ea.	**81-3102**	1.9mm Screwdriver with Blade, Large
1 ea.	**81-3103**	1.9mm Screwdriver Blade, Large
1 ea.	**81-2022**	Plate Bender
1 ea.	**81-2023**	Plate Cutter-Medium
1 ea.	**81-2024**	Forceps Angled
1 ea.	**81-3109**	Plate and Screw Container
1 ea.	**81-3119**	Sterilizing Container

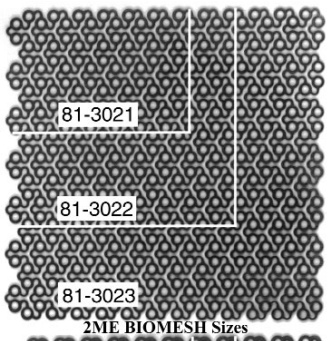
Drill Bits

1 ea.	**81-2033**	Drill bit 1.5mm, 4.5mm, standard low speed drill
1 ea.	**81-3044**	Drill bit 1.5mm, 6mm, standard low speed drill
1 ea.	**81-3045**	Drill bit 1.5mm, 10mm, standard low speed drill
1 ea.	**81-3064**	Drill bit 1.5mm, 4.5mm long craniotomes
1 ea.	**81-3065**	Drill bit 1.5mm, 6mm long craniotomes
1 ea.	**81-3066**	Drill bit 1.5mm, 10mm long craniotomes
1 ea.	**81-3075**	Drill bit 1.5mm, 4.5mm long hand drill
1 ea.	**81-3080**	Drill bit 1.5mm, 4.5mm long Midas Rex Classic
1 ea.	**81-3081**	Drill bit 1.5mm, 6mm long Midas Rex Classic
1 ea.	**81-3085**	Drill bit 1.5mm, 4.5mm long Midas Rex III
1 ea.	**81-3086**	Drill bit 1.5mm, 6mm long Midas Rex III

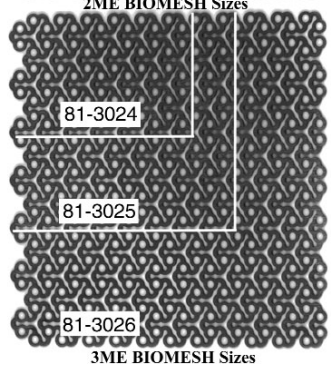
BIO-100 Set

1 ea.	**81-2034**	BIO-100 Screw Driver Blade 2mm
1 ea.	**81-2035**	BIO-100 Tray Insert
1 ea.	**81-3019**	BIO-100 Screw 1.9mm x 4.5mm
5 ea.	**81-2036**	BIO-100 Screws, 2mm x 4mm
1 ea.	**81-3020**	BIO-100 Two Hole Plate
5 ea.	**81-2037**	BIO-100 Two Hole Plate

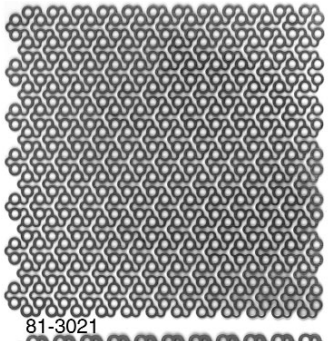
CRANIAL FIXATION, BIOPLATE

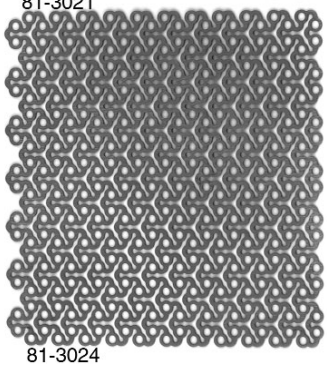


2ME BIOMESH Sizes



3ME BIOMESH Sizes


81-3021


81-3024

BIOPLATE BIOMESH
2MC BIOMESH
Thickness: 0.4mm
Screw diameters: 1.5mm to 2.0mm
Technical Data: Grade 4 Titanium (ASTM F-67)

81-3021	overall dimensions	33x48mm
81-3022	overall dimensions	60x60mm
81-3023	overall dimensions	85x90mm
81-3140	overall dimensions	132x134mm
81-3141	overall dimensions	127x131mm
81-3142	overall dimensions	200x200mm

3MC BIOMESH
Thickness: 0.6mm
Screw diameters: 1.5mm to 2.0mm
Technical Data: Grade 4 Titanium (ASTM F-67)

81-3024	overall dimensions	36x52mm
81-3025	overall dimensions	65x65mm
81-3026	overall dimensions	90x92mm

The BIOPLATE Large Screwdriver was designed to be used with the BIOPLATE 1.5mm and 1.9mm standard or self drilling screws, offering maximum insertion torque while minimising hand fatigue.

81-3100	1.5mm Large Screwdriver with blade
81-3101	1.5mm Large Screwdriver blade
81-3102	1.9mm Large Screwdriver with blade
81-3103	1.9mm Large Screwdriver blade

Codman

The BIOPLATE Neurosurgery Fixation System now offers eight new Contoured Burr Hole Covers (BHC) for cranial flap closure. The new BHC's are available in flexible or rigid configurations and pre-contoured to the natural curvature of the skull. The BHC's are made from the highest medical grade titanium, providing maximum strength and biocompatibility.

	1.9mm Contoured Burr Hole Covers	
81-2046	Flexible	12mm
81-2047	Flexible	18mm
81-2048	Rigid	12mm
81-2049	Rigid	18mm
81-3181	Shunt Burr Hole Cover	
	1.5mm Contoured Burr Hole Covers	
81-2053	Flexible	12mm
81-2054	Flexible	18mm
81-2055	Rigid	12mm
81-2056	Rigid	18mm
81-3180	Shunt Burr Hole Cover	

81-2053

81-2056

81-2049

CRANIAL FIXATION, BIOPLATE

81-3340	1.5mm COMPACT plus KIT Contains:			
81-2000	Straight Plate	2 hole	11mm	5PK
81-3135	Straight Plate	2 hole	14mm	5PK
81-2001	Straight Plate	4 hole	19mm	1EA
81-2003	X Plate 6 hole	17mm		1EA
81-2007	Boxcar Plate	4 hole	10 X 10mm	1EA
81-2054	Flexible Contoured Burr Hole Cover		18mm	1EA
81-2056	Rigid Contoured Burr Hole Cover		18mm	1EA
81-2012	1.5mm diameter Screw		4mm	5PK
81-3088	1.5mm diameter Self Drilling Screw		4mm	5PK
81-2018	Drill Bit 1.2mm		4.5mm	1EA
81-3100	Screwdriver Large		1.5mm	1EA
81-2024	Forceps Angled			1EA
81-3341	Compact Plus 1.5mm Container			1EA
81-3101	Screwdriver Blade Large 1.5mm			1EA

81-3342	1.9mm COMPACT plus KIT Contains:			
81-2037	Straight Plate	2 hole	15mm	5PK
81-3027	Straight Plate	2 hole	12mm	5PK
81-3028	Straight Plate	4 hole	20mm	1EA
81-3030	X Plate	6 hole	18mm	1EA
81-3034	Boxcar Plate	4 hole	11 X 11mm	1EA
81-2047	Flexible Contoured Burr Hole Cover		18mm	1EA
81-2049	Rigid Contoured Burr Hole Cover		18mm	1EA
81-3038	1.9mm diameter Screw		4mm	5PK
81-3092	1.9mm diameter Self Drilling Screw		4mm	5PK
81-2033	Drill Bit 1.5mm		4.5mm	1EA
81-3102	Screwdriver Large		1.9mm	1EA
81-2024	Forceps Angled			1EA
81-3343	Compact Plus 1.9mm Container			1EA
81-3103	Screwdriver Blade Large		1.9mm	1EA

CRANIAL FIXATION, STERILE PACKS

Ø 1.5	Ø 1.9			
81-3573	**81-3581**	Straight Plate 2 Hole 14mm 6 VELOCITY Screws 10 Packs per Box	X6	X3
81-3574	**81-3582**	Compression Plate 2 Hole 14mm 6 VELOCITY Screws 5Packs per Box	X6	X3
81-3575	**81-3583**	Straight Plate 2 Hole 11mm 6 VELOCITY Screws 5 Packs per Box	X6	X3
81-3578	**81-3586**	X Plate 6 Hole 6 VELOCITY Screws 5 Packs per Box	X6	X1
81-3579	**81-3587**	Boxcar Plate 4 Hole 4 VELOCITY Screws 5 Packs per Box	X4	X1
81-3580	**81-3588**	Burr Hole Cover 6 Hole 6 VELOCITY Screws 5 Packs per Box	X6	X1
81-3576	**81-3584**	2 VELOCITY Screws 10 Packs per Box	X2	
81-3577	**81-3585**	6 VELOCITY Screws 10 Packs per Box	X6	

CRANIAL FIXATION, BIOPLATE

81-3320	The BIOPLATE® Battery Powered Screwdriver Kit includes
81-3308	BIOPLATE Battery Screwdriver x2
81-3310	1.5mm Blade for Battery Screwdriver x3
81-3312	1.9mm Blade for Battery Screwdriver x3
81-3315	Battery Funnel and Batery Cap x2
81-3316	Battery Screwdriver Container x1
Batteries	
81-3314	Battery pack Sterile Box of 10 packs
81-3317	Battery pack Non Sterile Box of 10 packs

81-3405

81-3407

81-3424

81-3415

81-3422

81-3400

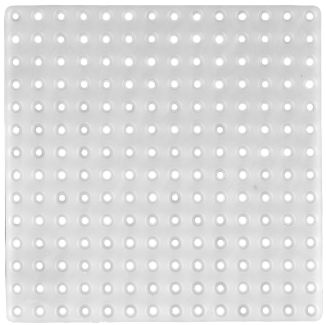
81-3418

81-3403

81-3468

Rivets
(sold in dispensers)

81-3460



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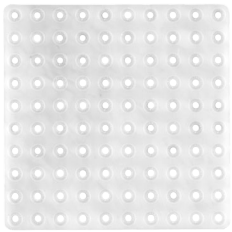

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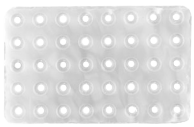


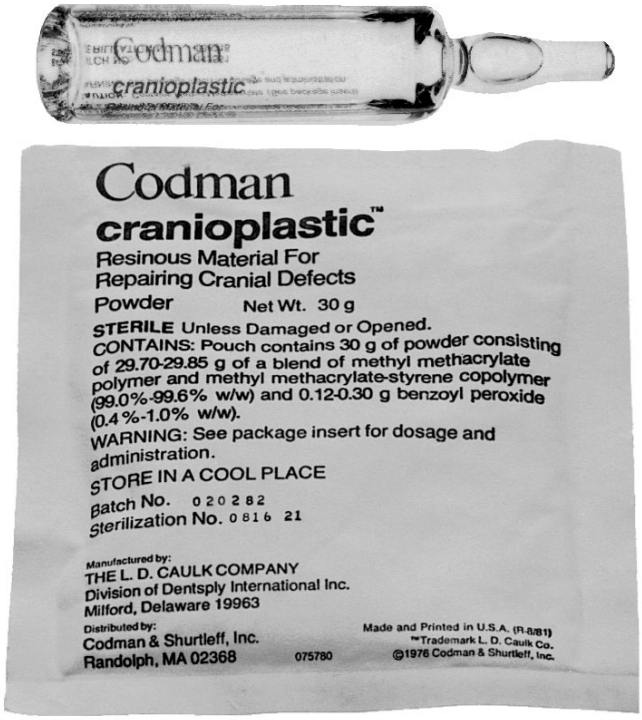
81-3440

CRANIOSORB ABSORABLE FIXATION SYSTEM

81-3400	Straight Plate	4 Hole	1 EA
81-3401	Straight Plate	4 Hole	6 units
81-3403	Y Plate	5 Hole	1 EA
81-3405	T Plate	5 Hole	1 EA
81-3407	X Plate	6 Hole	1 EA
81-3415	Small Burr Hole Cover	12mm	1 EA
81-3418	Large Burr Hole Cover	16mm	1 EA
81-3419	Large Burr Hole Cover	18mm	1 EA
81-3422	Box Car	4 Hole	1 EA
81-3424	Box Car	6 Hole	1 EA
81-3440	Small Mesh	30mmX38mm	1 EA
81-3442	Medium Mesh	60mmX60mm	1 EA
81-3444	Large Mesh	84mmX84mm	1 EA
81-3464	Rivet Dispenser - 2 Rivets	2mmX3mm	1 EA
81-3465	Rivet Dispenser - 2 Rivets	2mmX5mm	1 EA
81-3466	Rivet Dispenser - 2 Rivets	2mmX3mm	6 units
81-3467	Rivet Dispenser - 2 Rivets	2mmX5mm	6 units
81-3470	Rivet Dispenser - 5 Rivets	2mmX3mm	1 EA
81-3471	Rivet Dispenser - 5 Rivets	2mmX5mm	1 EA
81-3472	Rivet Dispenser - 5 Rivets	2mmX3mm	6 units
81-3473	Rivet Dispenser - 5 Rivets	2mmX5mm	6 units
81-3474	Rivet Dispenser - 12 Rivets	2mmX3mm	1 EA
81-3475	Rivet Dispenser - 12 Rivets	2mmX5mm	1 EA
81-3476	Rivet Dispenser - 12 Rivets	2mmX3mm	6 units
81-3477	Rivet Dispenser - 12 Rivets	2mmX5mm	6 units
81-3478	Rivet Dispenser - 20 Rivets	2mmX3mm	1 EA
81-3480	Rivet Dispenser - 20 Rivets	2mmX5mm	1 EA
81-3482	Rivet Dispenser - 20 Rivets	2mmX3mm	6 units
81-3484	Rivet Dispenser - 20 Rivets	2mmX5mm	6 units
81-3450	Drill Bit 3mm Stop	2mm	Crainotome
81-3451	Drill Bit 5mm Stop	2mm	Crainotome
81-3452	Drill Bit 3mm Stop	2mm	Midas Rex Classic
81-3453	Drill Bit 5mm Stop	2mm	Midas Rex Classic
81-3454	Drill Bit 3mm Stop	2mm	Midas Rex III
81-3455	Drill Bit 5mm Stop	2mm	Midas Rex III
81-3456	Drill Bit 3mm Stop	2mm	Standard Low Speed Drill
81-3457	Drill Bit 5mm Stop	2mm	Standard Low Speed Drill
81-3458	Drill Bit 3mm Stop	2mm	Black Max
81-3459	Drill Bit 5mm Stop	2mm	Black Max
81-3460	Sterilisation Tray		
81-3468	Rivet Applier		

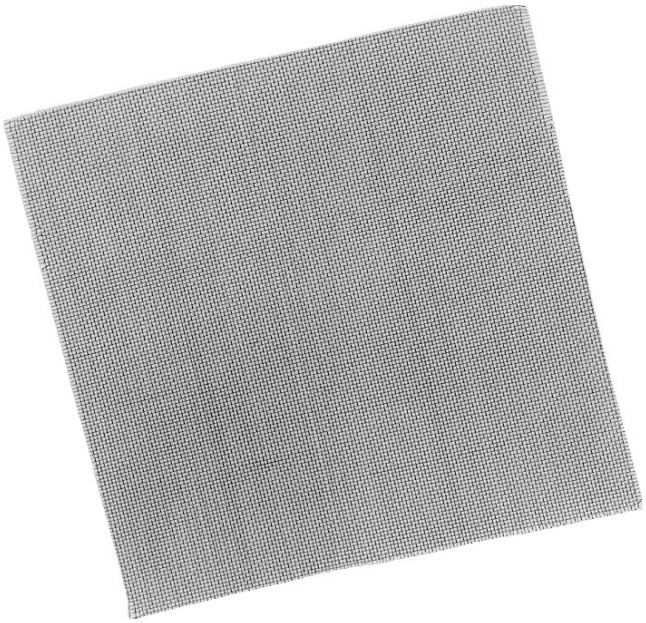
(These Codes not available in Germany - ask representative for alternative codes)

CRANIOPLASTIC


Codman
cranioplastic
Codman
cranioplastic™
Resinous Material For
Repairing Cranial Defects
Powder
Net Wt. 30 g
STERILE Unless Damaged or Opened.
CONTAINS: Pouch contains 30 g of powder consisting of 29.70-29.85 g of a blend of methyl methacrylate polymer and methyl methacrylate-styrene copolymer (99.0%-99.6% w/w) and 0.12-0.30 g benzoyl peroxide (0.4%-1.0% w/w).
WARNING: See package insert for dosage and administration.
STORE IN A COOL PLACE
Batch No. 020282
Sterilization No. 0816 21
Manufactured by:
THE L. D. CAULK COMPANY
Division of Dentsply International Inc.
Milford, Delaware 19963
Distributed by:
Codman & Shurtleff, Inc.
Randolph, MA 02368
075780
Made and Printed in U.S.A. (R-8/81)
™Trademark L. D. Caulk Co.
©1976 Codman & Shurtleff, Inc.

43-1050	CRANIOPLASTIC* Kit, two complete sets, consists of two bags sterile powder (net weight 30 grams each), two vials sterile liquid (net contents 17 milliliters each) and two sterile matrix bags.

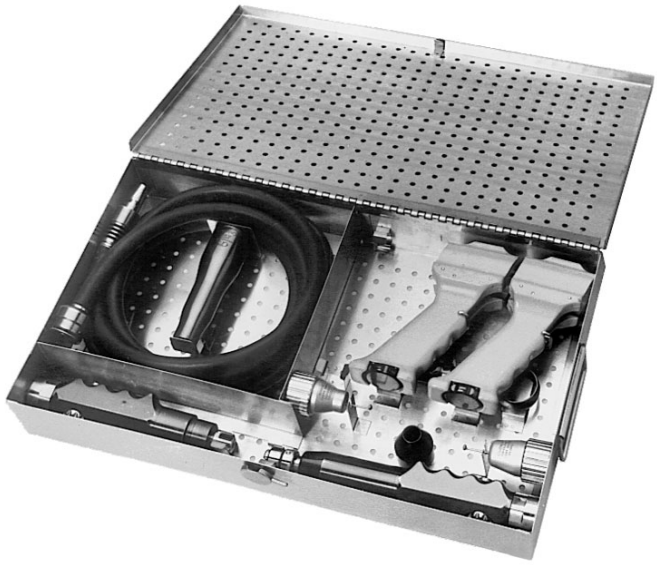
CRANIOPLASTIC, TITANIUM MESH



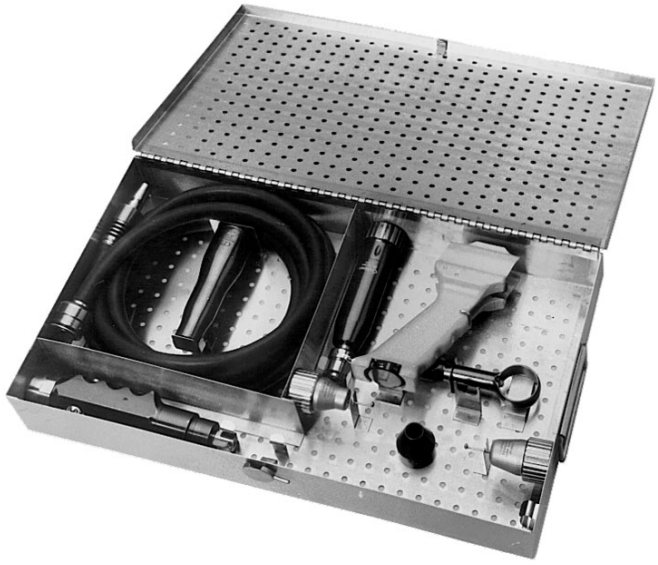
43-1022	TITANIUM Mesh Sterile Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.		
	Size	6″x 6″	(15cm x 15cm)
	Wire diameter	.010″	(31g)
	Mesh per inch	24 x 24	

CRANIOTOME AIR DRIVER SET

26-5030	CPS Unitised Air Craniotome Set		
	Includes the following:		
26-5000	Modular Air Driver, Complete		
26-5001	1,000 RPM Unitised, Air Driver, Complete		
26-5003	Swiveling Dura Guard		
26-5004	Wire Pass Drill Guard		
26-5008	Fixed Dura Guard		
26-5012	Stabilising Handle		
26-5007	Air Hose, 10 Feet (3.0m)		
26-5015	Sterilising Case		
26-5015	CODMAN Power Systems Sterilising Case, stainless steel, holds either a Unitised or Modular Air Craniotome Set		
	Length	17½″	(44cm)
	Width	10″	(25cm)
	Depth	2½″	(6cm)



26-5040	CPS Modular Air Craniotome Set		
	Includes the following:		
26-5000	Modular Air Driver, Complete		
26-5002	1,000 RPM Modular Attachment		
26-5003	Swiveling Dura Guard		
26-5004	Wire Pass Drill Guard		
26-5008	Fixed Dura Guard		
26-5012	Stabilising Handle		
26-5007	Air Hose, 10 Feet (3.0m)		
26-5015	Sterilising Case		



CRANIOTOME DRIVER ACCESSORIES

26-5007	CODMAN Coaxial Air Hose, recommended for use with CODMAN Air Powered Equipment.		
	Length	10	(3.0m)

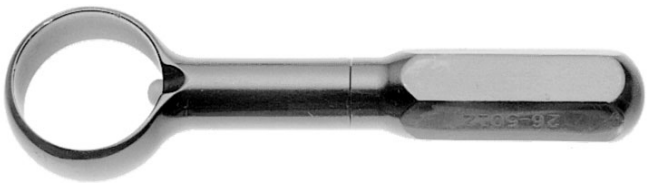
26-5006 CODMAN Nitrogen Regulator. Recommended for use with CODMAN Air Power System, includes color-coded pressure ranges marked on dial.

26-5003 CODMAN Swiveling Dura Guard, rotates 360°
26-5008 CODMAN Dura Guard, fixed stem.

26-5003

26-5008

26-5012 CODMAN Stabilising Handle, to be used with 26-5002, 1,000 RPM Modular Attachment.



CRANIOTOME DRIVER ACCESSORIES

26-5004 CODMAN Wire Pass Drill Guard

CRANIOTOME DRIVERS

26-5000 CODMAN Modular Air Driver. Includes pistol grip handle, (26-5007) coaxial air hose and lubricant.

Length	7″	(178mm)
Weight	20 oz.	(567 gm)
No load speed		20,000 rpm
Braking time		Within 1 sec.
Power requirement		100 psi compressed dry nitrogen, nominal

26-5001 CODMAN 1,000 RPM Unitised Air Driver. Includes pistol grip handle (26-5007), coaxial air hose, and lubricant.

Length	9″	(229mm)
Weight	28 oz.	(794gm)
No load speed		1,000 rpm
Power requirement		100 psi compressed dry nitrogen, nominal

CRANIOTOME DRIVERS

26-5002 CODMAN 1,000 RPM Modular Attachment. Locks onto the Air Driver (26-5000).

Length	4″	(102mm)
Weight	14 oz.	(397 gm)
No load speed		1,000 rpm

CRANIOTOME DRIVER, ACCESSORIES

26-5010 CODMAN Dura Guard Compression Ring, white. Five per package.

26-5011 CODMAN Modular Attachment Compression Ring, blue. Five per package.

CRANIOTOME DRIVER, ACCESSORIES

26-5026	CODMAN Lubricant. Recommended for use with CODMAN CPS System. Sold one each.

DRILLS/BURRS/GUIDES

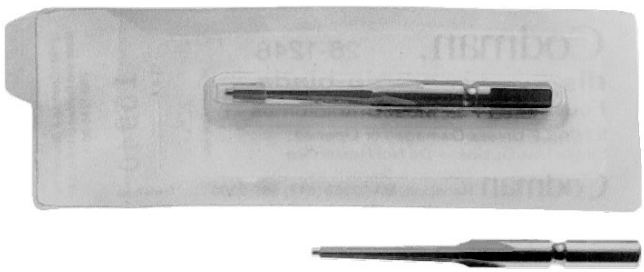
14-1000	ADSON Drill Guide and Dura Protector, Angled on side with hole in jaw.		
	Jaw length	¾″	(19mm)
	Hole diameter	⅛″	(3mm)
	Total length	6″	(152mm)

26-1230 The CODMAN CRANIOTOMY KIT, sterile, disposable.
Consists of one each:
CODMAN Disposable Perforator
CODMAN Cranioblade
CODMAN Wire Pass Drill

Codman
craniotomy kit
WARNING: FAILURE TO READ AND FOLLOW THE ENCLOSED INSTRUCTIONS MAY RESULT IN SERIOUS PATIENT INJURY OR DEATH.
STERILE
Single Use Device—Do Not Resterilize
Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.
Codman
CODMAN & SHURTLEFF, INC
a Johnson&Johnson company
Randolph, MA 02368 (617) 961-2300

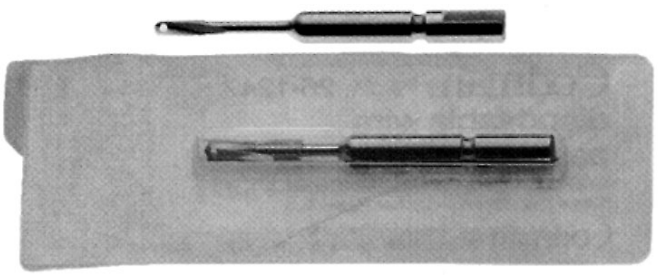
26-1221 Codman Disposable Perforator 14mm diameter

26-1246 CODMAN Cranio-blade. Sterile, disposable, package of five.



26-1080 BUNNEL Hand Drill with Jacobs chuck.
Chuck size 5⁄32″ (4mm)

26-1085 CHILDREN'S HOSPITAL Hand Drill, hexagonal handle, supplied with three (26-1086) twist drills.
Handle length 4 1⁄8″ (105mm)
Twist Drill diameter (4.2mm)



26-1247 CODMAN Wire Pass Drill, sterile. Disposable. Five per package.

CUSHING Burrs

15-1000C	Diameter	3⁄8″	(10mm)
	Length	3 1⁄2″	(89mm)
15-1001C	Diameter	5⁄8″	(15mm)
	Length	3 3⁄4″	(95mm)
15-1002C	Diameter	3⁄4″	(20mm)
	Length	4″	(102mm)

CUSHING Perforator Drills

26-1000	Diameter	3/8″	(9mm)
	Length	4″	(102mm)
26-1001	Diameter	1/2″	(13mm)
	Length	4″	(102mm)
26-1002	Diameter	5/8″	(16mm)
	Length	4″	(102mm)

26-1045	DEPTH Check Drill, supplied with six drills.		
	Length	2 3/4″	(70mm)
26-1046	TWIST Drill for 26-1045		
	Diameter	1/16″	(2mm)
	Length	2 1/4″	(57mm)

26-1006	D'ERRICO Perforator Drill and Enlarging Burr		
	Diameter	5/8″	(16mm)
	Length	3 5/8″	(92mm)

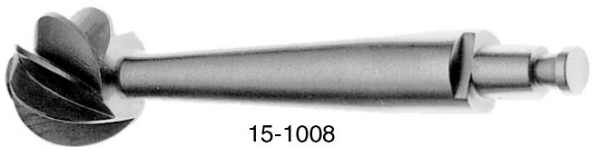
HUDSON Burrs

15-1005	Diameter	3/8″	(10mm)
	Length	4″	(102mm)
15-1006	Diameter	9/16″	(14mm)
	Length	4″	(102mm)
15-1007	Diameter	5/8″	(16mm)
	Length	4″	(102mm)
15-1008	Diameter	7/8″	(22mm)
	Length	4″	(102mm)

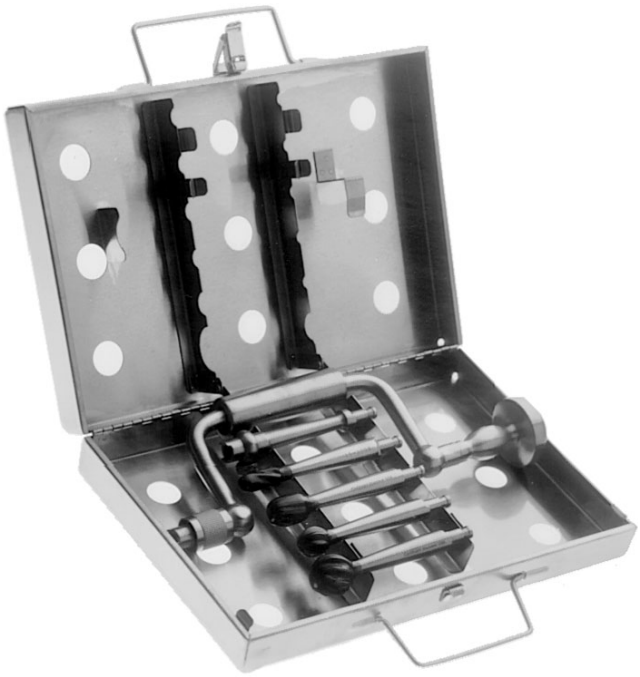
15-1005

15-1006

15-1007



15-1008



26-1075 HUDSON Cranial Drill Set.
Consists of one of each:
15-1005 Burr (9mm)
15-1006 Burr (14mm)
15-1007 Burr (16mm)
15-1008 Burr (22mm)
80-1002 Cerebellar extension
26-1041 Brace
21-1002 Sterilising case

26-1041 HUDSON Brace, with snap-lock chuck.
Length 9¾″ (248mm)

80-1002 HUDSON Cerebellar Extension
Length 4″ (102mm)

Codman

15-1004 McKENZIE Enlarging Burr

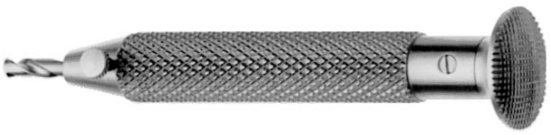
Diameter	1 1/16″	(17mm)
Length	5″	(127mm)

26-1088 MATHEWS Hand Drill, with knurled shank and rotating head, supplied with one each size MATHEWS Drill points.

Length of handle	4 1/2″	(114mm)

MATHEWS Drill Points

26-1180	Diameter		4mm
	Length	1 1/4″	(32mm)
26-1181	Diameter		6mm
	Length	1 7/8″	(48mm)

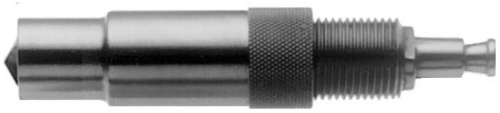


26-1004 McKENZIE Perforator Drill, high-speed steel.

Diameter	1/2″	(13mm)
Length	3 3/4″	(94mm)

26-1008 RANEY Perforator Drill with adjustable depth guard.

Diameter	1/2″	(13mm)
Length	4″	(102mm)



26-1086 TWIST DRILL for 26-1085

Diameter	5/16″	(4.2mm)
Length	3 1/4″	(83mm)

DRILL- HIGH SPEED - SYSTEM

93-5001	100,000 rpm High Speed Motor
93-5003	93-5003 750 rpm Perforator Motor with Hudson fitting
93-5004	Storage & Sterilisation Case
93-5030	Footpedal
93-5031	Footpedal Protective Cover
93-5010	Tubing – Footpedal to Motor
93-5025	Tubing – Footpedal to Gas Supply
93-5204	CODMAN HSD Lubricant
93-5202	O-Ring

Nosepieces	Short	Medium	Long
Straight	**93-5100**	**93-5110**	**93-5120**
Straight with Lock	**93-5101**	**93-5111**	**93-5121**
Angled with Lock	**93-5102**	**93-5112**	**93-5122**
Irrigation Cannula	**93-5103**	**93-5113**	**93-5123**
Craniotomes			
Fixed Dura Guard	**93-5181**	**93-5183**	**93-5185**
Swivelling Dura Guard	**93-5191**	**93-5193**	**93-5195**

Cutters (Codes starting 94-XXXX) for the CODMAN HIGH SPEED DRILL SYSTEM are designed for single use.

Pattern	Diameter Ø	Short	Medium	Long
Fluted Ball Tip	1.0mm		93-5401	
	1.5mm		93-5402	93-5502
	2.4mm	93-5303	93-5403	93-5503
	3.2mm	93-5305	93-5405	93-5505
	4.0mm		93-5406	93-5506
	4.8mm	93-5307	93-5407	93-5507
	6.4mm	93-5310	93-5410	93-5510
	7.0mm		93-5411	
	7.9mm	93-5312	93-5412	93-5512
	3.2mm XL			93-5705
Diamond Ball Tip Smooth	1.0mm	93-5323	93-5423	93-5523
	1.5mm	93-5325	93-5425	93-5525
	2.1mm	93-5327	93-5427	93-5527
	2.7mm		93-5428	93-5528
	3.3mm	93-5329	93-5429	
	3.8mm		93-5430	93-5530
	4.2mm	93-5331	93-5431	93-5531
	5.0mm	93-5333	93-5433	93-5533
	6.0mm	93-5335	93-5435	93-5535
Diamond Ball Tip Rough	2.7mm		93-5448	93-5548
	3.3mm		93-5449	
	3.8mm		93-5450	93-5550
	4.2mm		93-5451	93-5551
	4.6mm		93-5452	
	5.0mm		93-5453	
	6.0mm		93-5455	
Craniotome Cutter Spiral		93-5811	93-5813	93-5815
Craniotome Cutter Straight		93-5821	93-5823	93-5825
Neuro Cutter	1.8mm	93-5361	93-5461	93-5561
	3.0mm		93-5463	93-5563
Drill Cutter	1.5mm	93-5367	93-5467	
	2.0mm	93-5369	93-5469	
Drill Cutter	0.8mm	4.8mm D		93-5471
	1.0mm	5.0mm D		93-5473
	1.5mm	4.0mm D		93-5477
Flame Cutter	6.0mm		93-5483	
	7.5mm		93-5484	
	9.5mm	93-5385	93-5485	
Boring Tool	6.0mm	93-5386	93-5486	
	9.1mm		93-5487	
Pin Cutter	1.0mm	93-5394	93-5494	
Fluted Router Pointed Blade		19mm	93-5480	
Diamond Cone Cutter	5.0mm		93-5493	
Diamond Disc Cutter	25mm		93-5495	
Cement Eater			94-5496	

DRILL- HIGH SPEED - CUTTERS - SINGLE USE

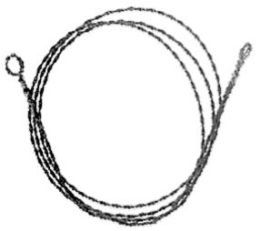
Cutters (Codes starting 94-XXXX) for the CODMAN HIGH SPEED DRILL SYSTEM are designed for single use.

Pattern	Diameter Ø	Medium	Long
Fluted Ball Tip	3.2mm	94-1006	
	4.0mm		94-1015
	4.8mm	94-1007	94-1016
	6.4mm	94-1008	
	7.0mm	94-1009	
	7.9mm	94-1021	
	4.8mm XL		94-1018
Diamond Ball Tip	2.1mm	94-1010	
	3.8mm		94-1017
	4.6mm	94-1011	
Craniotome Cutter Spiral		94-1020	94-1025
Craniotome Cutter Straight		94-1019	94-1024
Craniotome Cutter Fluted		94-1022	
Neuro Cutter	3.0mm	94-1012	
Drill Cutter	1.5mm	94-1013	
	2.0mm	94-1014	

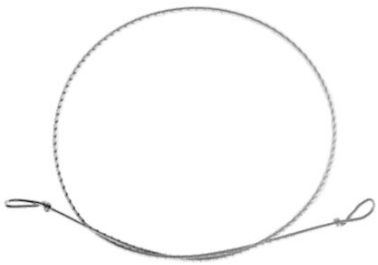
	BAILEY Gigli Saw Guides		
	Length	12″	(305mm)
14-1020	Straight		
14-1021	Curved		

	GIGLI Saw handles, one pair.			
11-1015	Loop	Length	1¾″	(44mm)
11-1016	Solid	Length	2″	(51mm

	GIGLI Twisted Wire Saws, package of ten.		
75-1003	Length	12″	(305mm)
75-1004	Length	20″	(508mm)



	OLIVECRONA-GIGLI Wire Saws, STILLE type, package of ten.		
75-1018	Length	12″	(305mm)
75-1019	Length	16″	(406mm)
75-1020	Length	20″	(508mm)



14-1025	POPPEN Gigli Saw Guide		
	Length	11″	(279mm)

11-1021

	STRULLY Gigli Saw Handles, one pair.			
11-1020C	Loop	Length	3¼″	(95mm)
11-1021C	Solid	Length	3½″	(89mm)

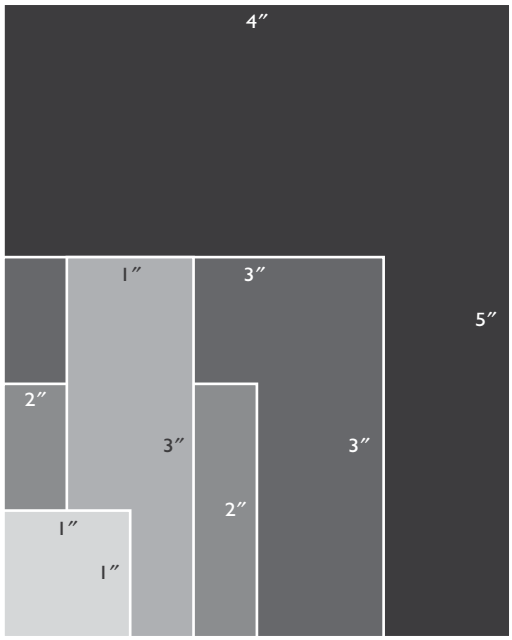
	TYLER-GIGLI Wire Saws, large cut, package of ten.		
75-1012	Length	20″	(508mm)
75-1013	Length	12″	(305mm)

CODMAN ETHISORB DURA PATCH is a synthetic absorable implant for the bridging of Dura Mater encephali and spinalis defects.It is a composit of the following materials:

EDP23S	20x30mm	1 each
EDP23	20x30mm	6 pack
EDP46S	40x60mm	1 each
EDP64	40x60mm	3 pack
EDP614	60x140mm	1 each

CODMAN DURAFORM Dural Graft implant is a collagen matrix manufactured from processed bovine tendons. It is sterile, absorbable implant intended for the repair of dura mater. It is sutureless, onlay graft but tensionless stay sutures can be used if preferred by surgeon.

80-1472	1X1	5 pack
80-1473	1X3	1 each
80-1474	1X3	5 pack
80-1475	2X2	1 each
80-1476	2X2	5 pack
80-1477	3X3	1 each
80-1478	3X3	5 pack
80-1480	4X5	1 each



INTERCRANIAL PRESSURE-CANNULA

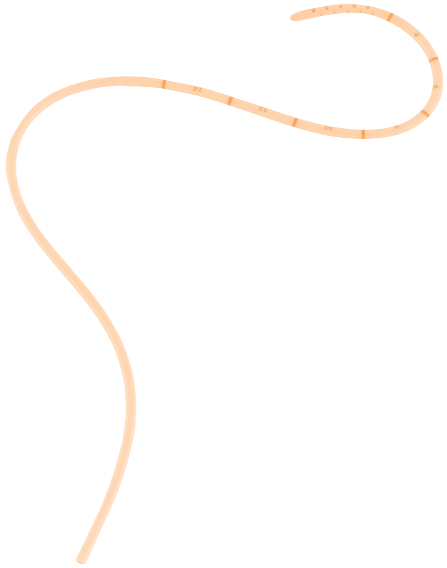
ELSBERG Ventricular Cannulas, silver, graduated in centimeters, closed end, three side holes.

16-1015	Diameter	5 Fr.	Length	4″ (102mm)
16-1016	Diameter	7 Fr.	Length	4″ (102mm)
16-1017	Diameter	9 Fr.	Length	4″ (102mm)

SCOTT Ventricular Cannulas, 8 Fr., disposable, sterile, five per box. One cap and one stylet provided in each package.

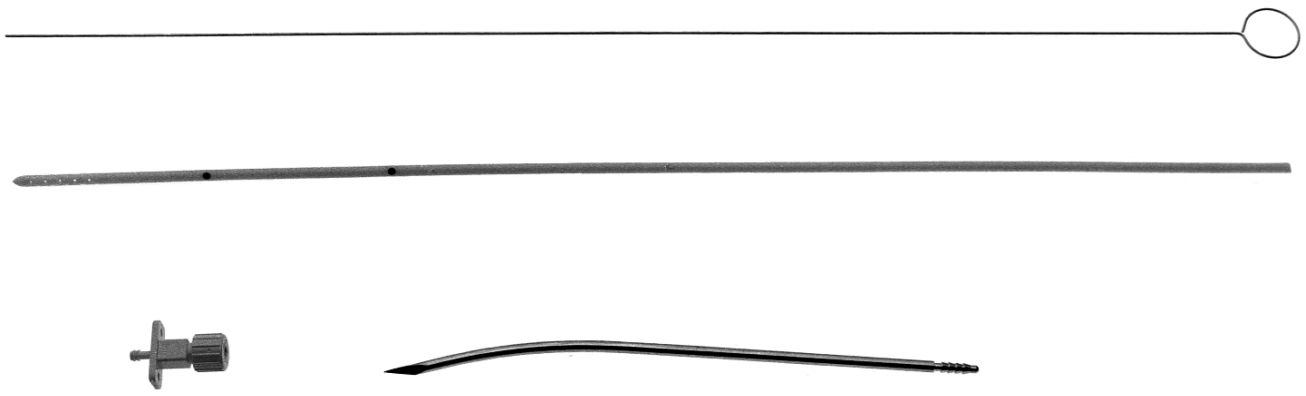
16-1055	Length	3⅛″	(80mm)
16-1056	Length	3⅞″	(100mm)

82-1745	CODMAN BACTISEAL EVD CATHETER An antimicrobial external drainage catheter BACTISEAL EVD Catheter Set Depth Markings 3cm to 15cm

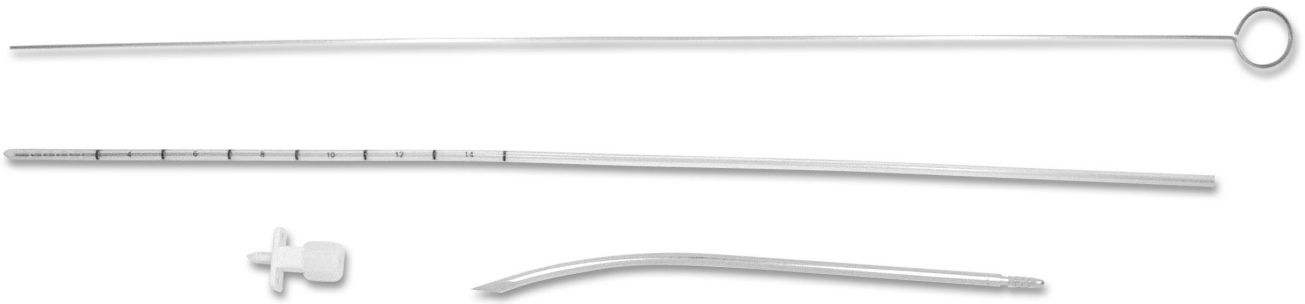


82-1707	CODMAN Lumbar Drainage Catheter Kit II The CODMAN Lumbar Drainage Catheter Kit II consists of a lumbar catheter 80cm in length with a closed tip and side holes to allow for drainage without clogging. A Teflon-coated precoiled steel guide wire (approx. 100cm) with an adjustable stop is also included. This kit includes a 14-gauge Touhy needle with a clear plastic flash back chamber, centimeter markings, and wings for leverage and ease of use. A female luer lock connector and suture clips made of soft silicone allow for easy connection and attachment to patient. • 80cm Radiopaque Catheter • Unique drainage hole pattern with enlarged hole diameter • 100cm guide wire with dispenser • 14 gauge touhy needle with 1cm depth markings • Low profile female luer lock

EXTERNAL CSF DRAINAGE & MONITORING, EXTERNAL CSF CATHETERS



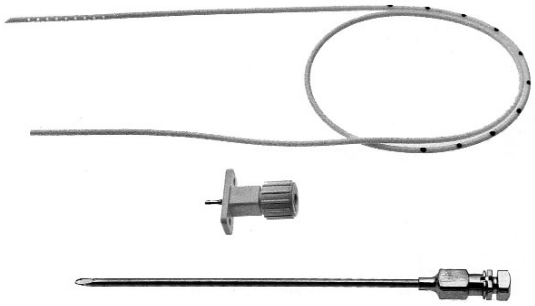
82-1705 CODMAN External Drainage Ventricular Set, sterile, designed to drain CSF from ventricles of the brain. Set includes: Two (2) 35cm radiopaque silicone ventricular catheters (1.5mm I.D., 3.1mm O.D.), 36cm straight stylet, curved trocar, luer lock connector.



82-1735 CODMAN External Drainage Ventricular Set, sterile, designed to drain CSF from ventricles of the brain. Set includes: 35cm clear silicone ventricular catheter with radiopaque stripe (1.5mm I.D., 3.1mm O.D.), 36cm straight stylet, curved trocar, luer lock connector and cap.

EXTERNAL CSF DRAINAGE & MONITORING, EXTERNAL CSF CATHETERS

82-1706 CODMAN Lumbar External Drainage Kit, sterile, used for temporary access to the Lumbar Subarachnoid region as a means of draining CSF to reduce increased intercranial volume and pressure. Consists of a 46cm silicone Lumbar Catheter (I.D. 0.76mm, O.D. 1.65mm), a 14G Touhy Needle with Huber point, a (female Luer Lock Connector and cap for connection to monitoring or CSF collection equipment. 10 Tantalum location markings on catheter. Must be used in conjunction with the CODMAN Drainage collection bag and Tubing Set

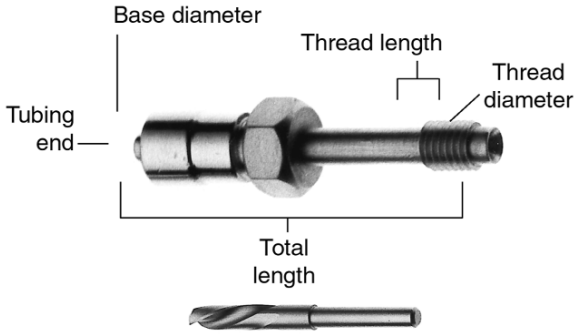


CRANIAL ACCESS/DRILL KITS

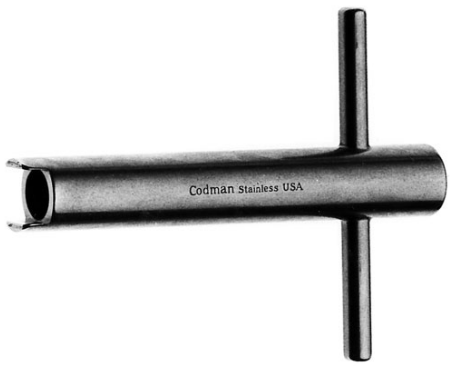
80-1180 RICHMOND Subarachnoid Screw, for monitoring intracranial pressure. Attaches through tubing set to intracranial monitor or transducer.

Tubing end diameter	5mm
Base diameter	9.5mm
Thread diameter	6mm
Thread length	6mm
Total length	48mm

80-1181 RICHMOND Subarachnoid Twist Drill drills a (5.9mm) hole for the insertion of RICHMOND Subarachnoid Screw (80-1180). Use 26-1080 BUNNELL Hand Drill with 80-1181 Drill.



80-1182 RICHMOND Subarachnoid Wrench fits on RICHMOND Subarachnoid Screw (80-1180). Allows surgeon to twist screw into seated position.



EXTERNAL CSF DRAINAGE & MONITORING, CRANIAL ACCESS/DRILL KITS

CODMAN Cranial Access Kit
A disposable intercranial procedural kit which contains the most commonly used items for cranial access.

Preparation Components:
Double edge razor (1 per)
Gauze sponges 4x4 12 ply (10 per)
Medicine cup, 2 oz; 60cc (2 per)

Cranial Access Preparation:
Ruler 6" (1 per)
Marking pen (1 per)
Fenestrated drape w/barrier 15x15 (1 per)
Absorbent towel 15x21 (3 per)

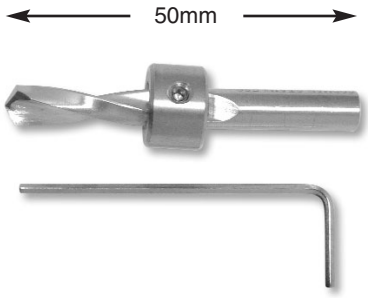
Cranial Access:
Syringe 12cc (2 per)
Needle 18g x 1.5 (1 per)
Spinal Needle 18g x 3.5 (1 per)
Needle 25g x $^{5}/_{8}$ (2 per)
Needle Ventricular Needle 12g x 5.5 (1 per)
Scalpel #15 (1 per)
Scalpel #11 (1 per)
Retractor Blunt (1 per)
Hand Crank Drill (1 per)
2.7mm drill bit with stop & wrench (1 per)
5.8mm drill bit with stop & wrench (1 per)
Bone Wax (1 per)
Mosquito forceps, curved (2 per)
Culture tube w/screw cap (1 per)

Wound Closure/Dressing:
2.0 Ethicon silk suture (1 per)
3.0 Ethicon nylon suture (1 per)
Needle holder, serrated (1 per)
Adson forceps (1 per)
Adson forceps w/teeth (1 per)
Suture scissors (1 per)
Gauze sponges 2 x 2 4 ply fenestrated (2 per)

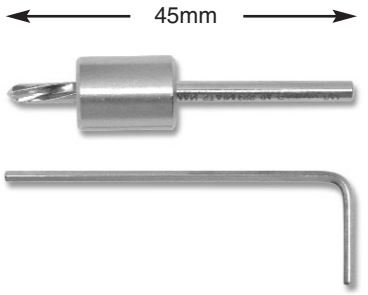
82-6616 CODMAN Cranial Access Kit (without drugs)

EXTERNAL CSF DRAINAGE & MONITORING, CRANIAL ACCESS/DRILL KITS

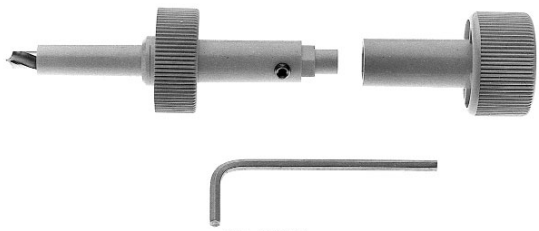
80-6607 MicroSensor Hand Drill Disposable



82-6608 MicroSensor Drill Bit Ø 5.8mm Disposable



82-6609 MicroSensor Drill Bit Ø 2.7mm Disposable



80-1200 Disposable Twist Drill

80-1200

EXTERNAL CSF DRAINAGE & MONITORING, CRANIAL ACCESS/DRILL KITS

80-1185 GHAJAR GUIDE Ventriculostomy Kit
Sterile, used for quick access through the cranium and precision placement of a ventricular catheter for I.C.P. monitoring or C.S.F. drainage. Should be used in conjunction with the CODMAN Drainage Collection Bag and Tubing Set (82-1701). Components include:

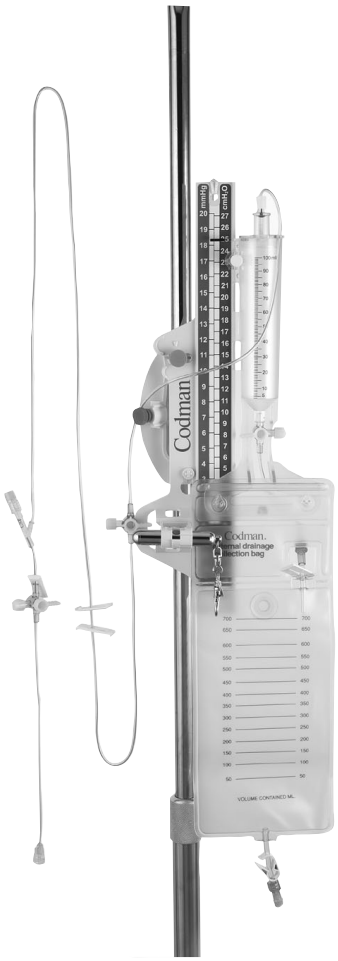
- Palm grip drill with 4 spacer clips and guide base.
- 20cm ventricular catheter with styler and plaster insert
- Luer hub with cap, male end fits into 1.0–1.3 mm I.D. catheter.
- Tunneling trocar, male end fits into 1.0–1.3 mm 1.0 catheter.
- Cotton applications 6″ long, approx 4 per kit.
- Fenestrated drape, STERI-drape, $15\frac{5}{8}$″ x $15\frac{5}{8}$″ with $2\frac{1}{4}$″ hole.
- Non-fenestrated drape, 18″ x 26″, 2 per kit.
- Gauze sponges, 4″ x 4″, 12 ply. 8 per kit.

#15 disposable scalpel.

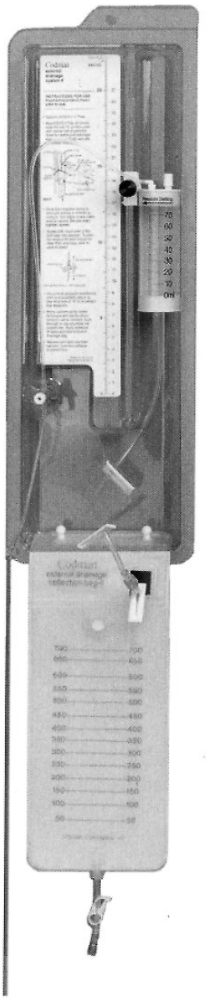
- Disposable forceps.
- Disposable measuring type, 30cm.
- Disposable marking pen.
- 18G 3″ spinal needle.
- 5cc syringe with 22G x $1\frac{1}{2}$″ needle.

EXTERNAL CSF DRAINAGE & MONITORING, EXTERNAL CSF DRAINS

	CODMAN External Drainage System 3
82-1730	CODMAN External Drainage System 3 - Complete [sterile] with clear ventricular catheter
82-1731	CODMAN External Drainage System 3 - Complete [sterile] without ventricular catheter
82-1732	CODMAN External Drainage System 3 Collections bags [5 units]
82-1733	CODMAN External Drianage System 3 Leveling Device
82-1735	CODMAN External Drainage System 3 clear ventricular catheter 35cm
82-1738	CODMAN External Drainage System 3 with CODMAN Lumbar Catheter Kit II



EXTERNAL CSF DRAINAGE & MONITORING, EXTERNAL CSF DRAINS



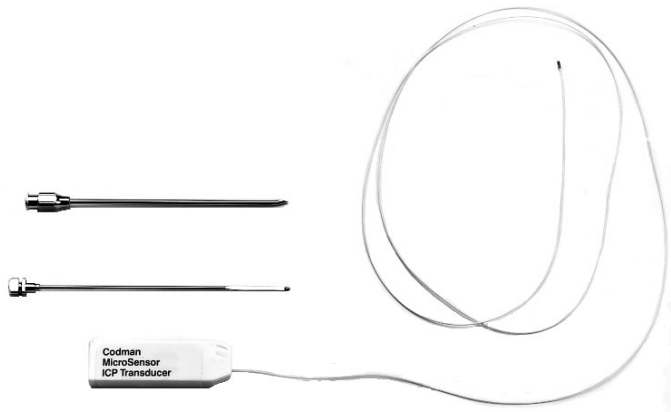
	CODMAN External Drainage System II
82-1720	CODMAN External Drainage System II-Complete (Sterile) with Ventricular Catheter
82-1721	CODMAN External Drainage System II (Sterile) without Ventricular Catheter
82-1732	CODMAN External Drainage System - Replacement Collection Bags (Sterile) - Package of 5
82-1723	CODMAN External Drainage System II-Manifold Pole Clamp (Non-Sterile)
82-1724	CODMAN External Drainage System II with the GHAJAR™ Guide Ventriculostomy Kit (Sterile)
82-1735	CODMAN Clear External Drainage Ventricular Catheter 35cm
82-1707	CODMAN Lumbar External Drainage Catheter with Touhy Needle (Sterile) and Luer Lock Connector

NOTE: Instructions in six languages: English, French, German, Japanese, Italian, and Spanish.

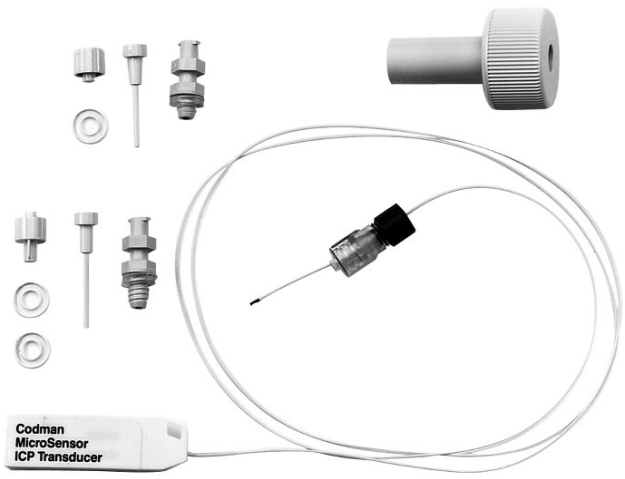
82-1725	EDS-II QUICKLINE® Leveling Device A leveling device to facilitate proper alignment of the EDS-II (82-1720, 82-1721, 82-1724) to the patients' correct reference point. The QuickLine attaches directly to the EDS II tray.

MICROSENSOR™ ICP Transducer
The CODMAN MICROSENSOR ICP Transducer consists of a miniature strain gauge pressure sensor mounted in a titanium case at the tip of a 100cm flexible nylon tube. The MICROSENSOR monitors intracranial pressure directly at the source - subdural, parenchymal or intraventricular. Information is relayed electronically rather than through a hydrostatic column or fiberoptics.
The MICROSENSOR is available in four different kit configurations.

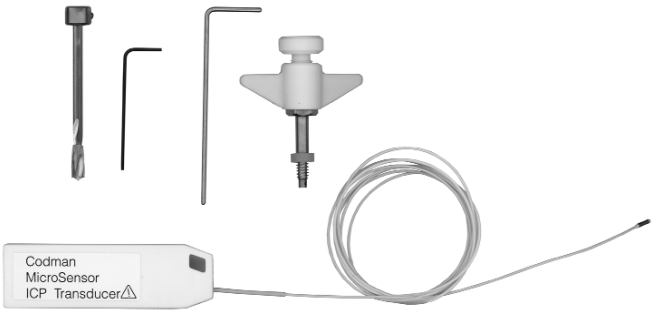
82-6631 MICROSENSOR Basic Kit – Indicated for use in both subdural and intraparenchymal pressure monitoring applications.
Contains the following components:
- CODMAN MICROSENSOR ICP Transducer
- 14 Gauge Touhy Needle



82-6632 MICROSENSOR™ Bolt Kit - Indicated for use in both subdural and intraparenchymal pressure monitoring applications.
Contains the following components:
- CODMAN MICROSENSOR ICP Transducer
- Adult and Pediatric Skull Bolt with Luer
- Spacing Washers
- Touhy-Borst Adapter (mounted on the catheter portion of the transducer)
- Disposable ICP Screw Handle



EXTERNAL CSF DRAINAGE & MONITORING, ICP MONITORING



MICROSENSOR™ Skull Bolt Kit
Indicated for use in both subdural and intra-parenchymal pressure monitoring applications.
Contains the following components:
- CODMAN MICROSENSOR ICP Transducer
- Winged, .7mm skull bolt with leak-proof compression cap
- Spacing washer
- Obturator/ Durapierce
- Drill Bit

82-6638 MICROSENSOR Skull Bolt Kit (each)
82-6639 MICROSENSOR Skull Bolt Kit (5 per case)

82-6653 MICROSENSOR™ Ventricular Catheter Kit with ICP transducer is designed for use with the CODMAN ICP EXPRESS® monitor. In conjunction with the ICP EXPRESS unit, the sensor may be used with a wide variety of patient monitoring systems for display of Intracranial pressure ICP wave form, or for consideration of ICP data with other vital clinical monitoring information.
Contains the following components:
- 38cm clear ventricular catheter with preloaded stylet
- Integrated miniature strain gauge pressure transducer
- 7-gauge tunneling trocar for placement

Codman

82-6635 ICP EXPRESS

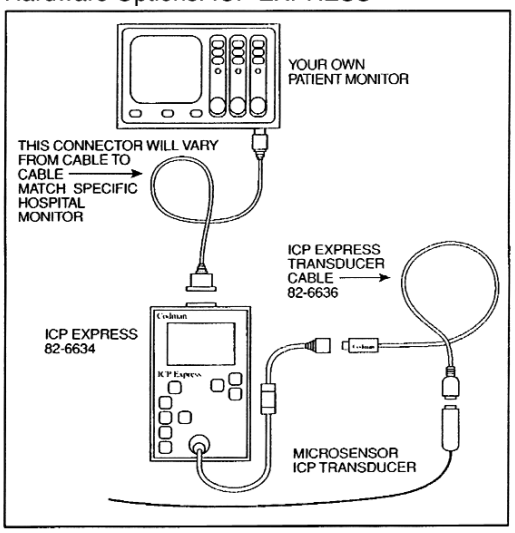
The ICP EXPRESS is a digital intracranial pressure monitor that also serves as an interface between the Codman MICROSENSOR ICP Transducer and patient monitors. When connected to a MICROSENSOR, the ICP EXPRESS provides a continuous numeric display of the mean, systolic and diastolic intracranial pressure.

-User instructions appear directly on screen
-One touch zero function
-Compatible with most patient monitoring systems for full ICP waveform analysis and integration of ICP data with other patient information
-Digital display of systolic, diastolic and mean ICP

The ICP EXPRESS comes complete with integral pole clamp and ICP EXPRESS Cable. If additional ICP EXPRESS Cables are required, they can be ordered separately (82-6636).

See Page 274 for cables

Hardware Options: ICP EXPRESS



EXTERNAL CSF DRAINAGE & MONITORING, ICP MONITORING

82-6636 ICP EXPRESS Cable
Connecting cable between the CODMAN MICROSENSOR ICP Transducer (catalog nos. 82-6631, 82-6632, 82-6633 and 82-6638) and the CODMAN ICP EXPRESS. The cable's integral computer memory stores the zero reference value after the transducer zeroing process is complete permitting easy interchange of ICP EXPRESS units and/or patient monitors.

Patient Monitor Interface Cables
Connects the Interface Control Unit (82-6605)
or ICP EXPRESS®
to compatible patient monitors already at your hospital. Contact your representative for assistance in selecting appropriate cables.

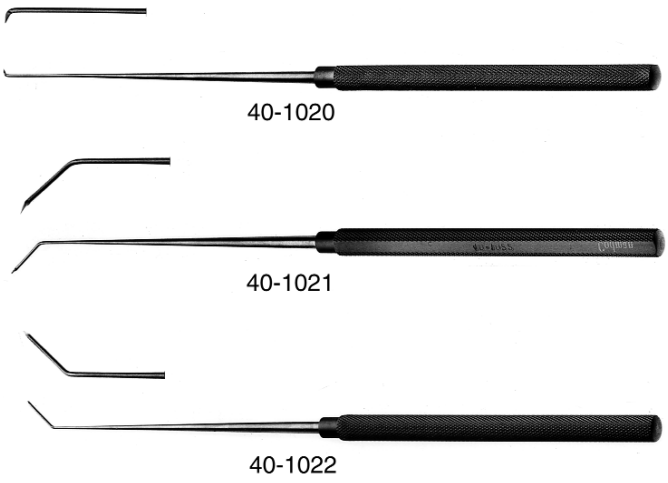
82-6642	Siemens 10P Interface Cable
82-6643	Marquette 8P Interface Cable
82-6645	Spacelabs 6P Interface Cable
82-6646	Hewlett-Packard 12P/R Interface Cable
82-6647	Marquette 11P Interface Cable

Additional special order patient monitor interface cables are also available.

Order through Repair Department (800-343-5969)

92-6624	**7268/AB**	ABBOT 7P Interface Cable
92-6625	**7268/BK-1**	BECKMAN P Interface Cable
92-6626	**7268/BU-2**	BURDICK 10S Interface Cable
92-6627	**7268/CO-1**	COROMETRICS 3P/3S Interface Cable
92-6628	**7268/FD-1**	FUKUDA-DENSHI 5P Interface Cable
92-6629	**7268GS**	GOULD P Interface Cable
92-6630	**7268/HE-1**	HELLIGE 4P Interface Cable
92-6631	**7268/HO-M**	HONEYWELL 9P Interface Cable
92-6632	**7268/BD**	LITTON DATAMEDIX/BECTON DICKINSON 9P Interface Cable
92-6633	**7268/LI-1**	LITTON DATAMEDIX 4P Interface Cable
92-6634	**7268/LI-2**	LITTON DATAMEDIX 6P Interface Cable
92-6635	**7268/GE-PDS**	MARQETTE/GENERAL ELECTRIC 8P Interface Cable
92-6636	**7268/MG**	MENNEN 6P Interface Cable
92-6637	**7268/NK**	NIHON-KOHDEN 5P Interface Cable
92-6638	**7268/PC**	PSYSIO-CONTROL 6P Interface Cable
92-6639	**7268/AO-2**	PIONEER 6P Interface Cable
92-6640	**7268/SIE-1**	SIEMENS 5S Interface Cable
92-6641	**7268SIE-2**	SIEMENS 15P Interface Cable
92-6642	**7268/CS-2**	COBE 6P Interface Cable
92-6643	**7268/KO**	KONTRON 12P Interface Cable
92-6644	**7268/CA**	CARE 5P Interface Cable
92-6645	**7268/RW-1**	RICHARD WEISS Interface Cable
92-6646	**7268/PPG-1**	PPG 10P Interface Cable (Honeywell RM 300)
92-6647	**7268/DATEX-1**	DATEX CARDIOCAP 10S Interface Cable
92-6648	**7268/ME**	MEDTEL 6P Interface Cable
92-6649	**7268/RO-1**	ROCHE 108 Interface Cable
92-6650	**7268/IVY**	IVY BIOMED 6P Interface Cable
92-6652	**7268/KO**	KONTRON SUPERMON Interface Cable
92-6653	**7268/AS-4**	SIMONSEN & WEEL Interface Cable
92-6654	**7268/HE-2**	HELLIGE VICON Interface Cable
92-6655	**7268/BR-1**	GOULD 12P Interface Cable

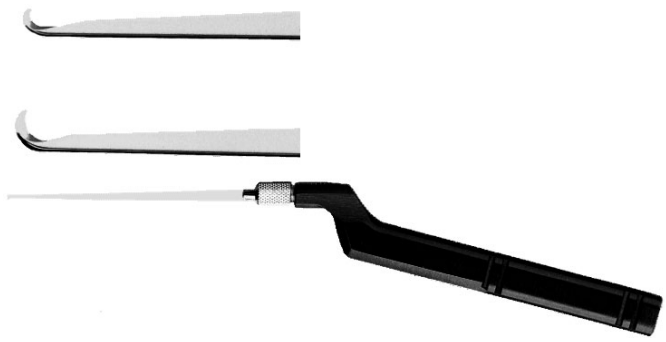
KNIFE



	STECHER Arachnoid Knives		
	Tip width		1.5mm
	Length	8″	(203mm)
40-1020	Straight		
40-1021	Angled left		
40-1022	Angled right		

KNIFE, MICRO

	Javelin Micro-Knife Handles		
	These new Javelin Micro-Knife Handles are sold individually and are designed to be used with KARLIN™ Micro Tip and Ultra Tip Micro-Knife blades.		
46-3182	Straight		
46-3183	Bayonet		
	Instrument length	9.1″	(23cm)
	Working distance	4.6″	(12cm)
	Handle diameter	0.3″	(0.7cm)
	KARLIN™ Disposable Blades		
46-3177	2mm Micro Tip		
46-3178	1.5mm Ultra Tip		

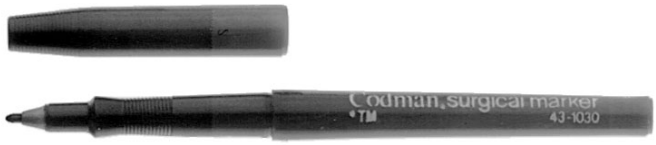


46-3174	KARLIN™ Micro-Knife Handle combines patented* back bayonet design, with a simple blade locking feature. Order blades separately.
46-3177	Micro Tip Blade, 2mm
46-3178	Ultra Micro Tip Blade, 1.5mm
	Blades packaged sterile, 10 per package.

*Patent No. D312,310

MARKER PENS

43-1030 CODMAN Surgical Marker, gentian violet dye, regular tip, sterile, disposable, packaged with 6″ (15cm) ruler, 36 per case.

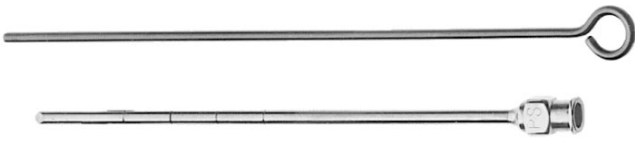


CODMAN Surgical Marker, gentian violet dye, sterile, disposable, with 6″ (15cm) ruler, 36 per case.

43-1032 Micro tip

NEEDLES, NEURO

45-1065 CAMPBELL Ventricular Needle, graduated in centimeters, 3 hole, Luer lock hub, 12G.
Length 4″ (102mm)



CONE Biopsy Needles, sharp open end with blunt obturator, Luer lock hub.
Length 3½″ (89mm)

45-1022 13G.
45-1024 15G.

CONE Ventricular Needles, 2 hole, Luer lock hub.
Length 3½″ (89mm)

45-1010	12G.	**45-1014**	16G.
45-1011	13G.	**45-1015**	17G.
45-1012	14G.	**45-1016**	18G
45-1013	15G.	**45-1017**	18G.

45-1085 D'ERRICO Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.
Length 3¾″ (95mm)

NEEDLES, NEURO

45-1052 DANDY Ventricular Needle, graduated in centimeters, 1 hole, 11G.
Length 3 5/8″ (92mm)

45-1092 FRAZIER Ventricular Needle, graduated in centimeters, three hole, 10G.
Length 3 7/8″ (98mm)

MIXTER Ventricular Needles, two hole, silver.
Length 3 5/8″ (92mm)

45-1060	14G.	**45-1062**	16G
45-1061	15G.	**45-1063**	18G.

45-1068 PACE Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.
Length 3 5/8″ (92mm)

45-1055 POPPEN Ventricular Needle, two hole, Luer lock hub, 12G.
Length 3 3/8″ (86mm)

45-1050 SCOVILLE Ventricular Needle, graduated in centimeters, two hole, 14G.
Length 3 3/8″ (85mm)

CODMAN Surgical Patties, sterile, X-ray detectable, 10 patties per package, 20 packages per dispenser box.

80-1396	5/16″ Ø	(7mm Ø)
80-1397	¼″ x 1½″	(7mm x 38mm)
80-1398	¼″ x 3″	(7mm x 76mm)
80-1399	¼″ x ¼″	(7mm x 7mm)
80-1400	½″ x ½″	(13mm x 13mm)
80-1401	¾″ x ¾″	(19mm x 19mm)
80-1402	½″ x 1″	(13mm x 25mm)
80-1403	1″ x 1″	(25mm x 25mm)
80-1404	½″ x 1½″	(13mm x 38mm)
80-1406	½″ x 2″	(13mm x 52mm)
80-1407	½″ x 3″	(13mm x 76mm)
80-1408	1″ x 3″	(25mm x 76mm)
80-1409	3″ x 3″	(76mm x 76mm)

CODMAN® Surgical Patties and Strips

CODMAN Surgical Patties and Strips provide the neurosurgeon with softness, gentleness, protection and absorbency to meet the demands of delicate intracranial and spinal surgery.

Absorbency

CODMAN Patties and Strips absorb more than 5 times their weight in less than a second.

Precision Cut

CODMAN Patties and Strips' precision cut provides smooth edges and helps prevent linting.

COTTONOID® Material

COTTONOID compressed rayon provides the natural softness, absorbency and pliability of cotton. A special process interweaves individual rayon fibres to resist shedding, stretching or linting – whether wet or dry.

Soft and Gentle

SUTUREWELD®'s strong bond holds the indicator string to the pattie so the surface which lies next to the tissue is completely smooth and free of stitches.

Pliable and Porous

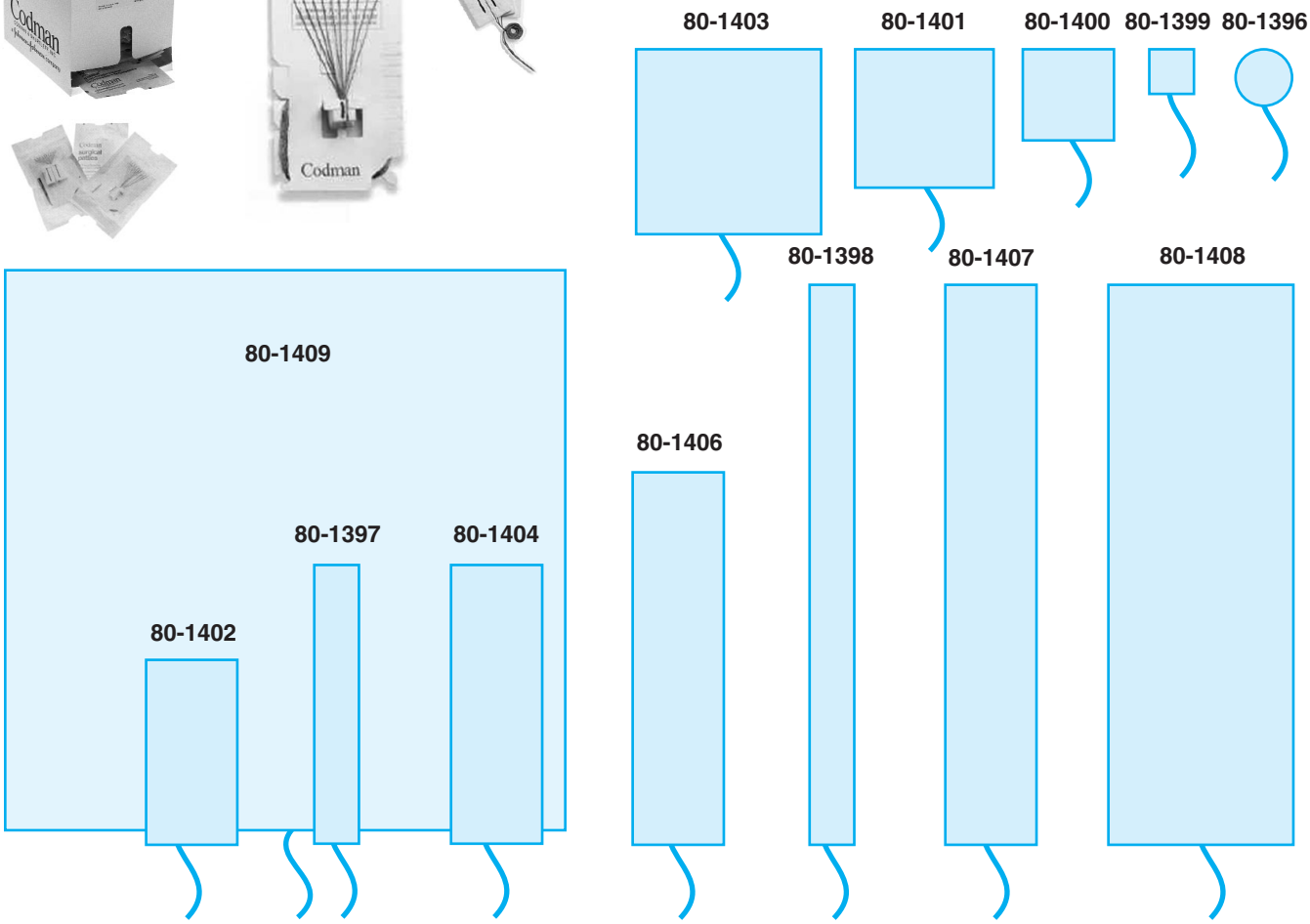
COTTONOID material offers the advantage of being porous so CODMAN Patties and Strips easily conform to the intricate contours of delicate tissue. Yet, you can safely suction through them without aspirating the tissue or the pattie strip.

X-Ray Detectable

Marking is where it should be – on the pattie or strip.

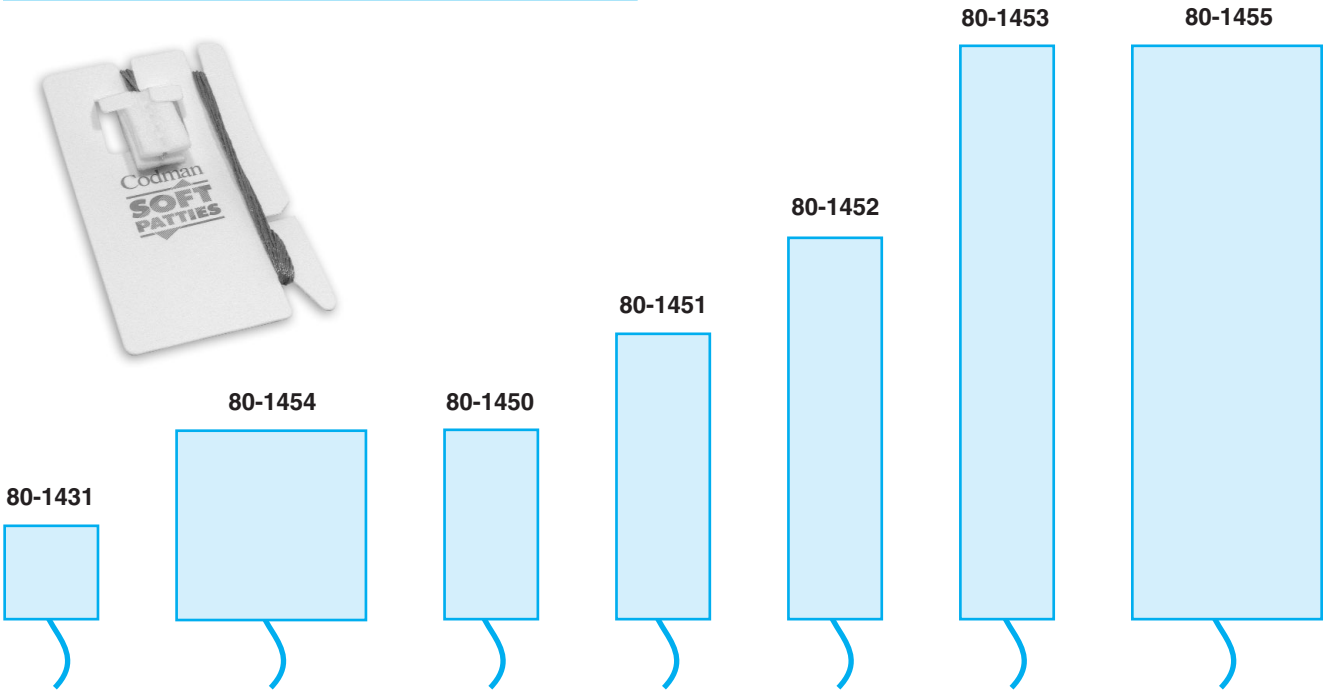
Unique Packaging

A transparent, sterile envelope shows the size and shape of patties and strips, and the Count Verification Card instantly shows how many patties you started with and how many were used.



PATTIES, SOFT

	CODMAN Soft Patties, sterile, 10 patties per package, 20 packages per dispenser box.	
80-1431	½″ x ½″	(13mm x 13mm)
80-1432	½″ x 1″	(13mm x 25mm)
80-1433	½″ x 1½″	(13mm x 38mm)
80-1434	½″ x 2″	(13mm x 52mm)
80-1435	½″ x 3″	(13mm x 76mm)
80-1436	1″ x 1″	(25mm x 25mm)
80-1437	1″ x 3″	(25mm x 76mm)

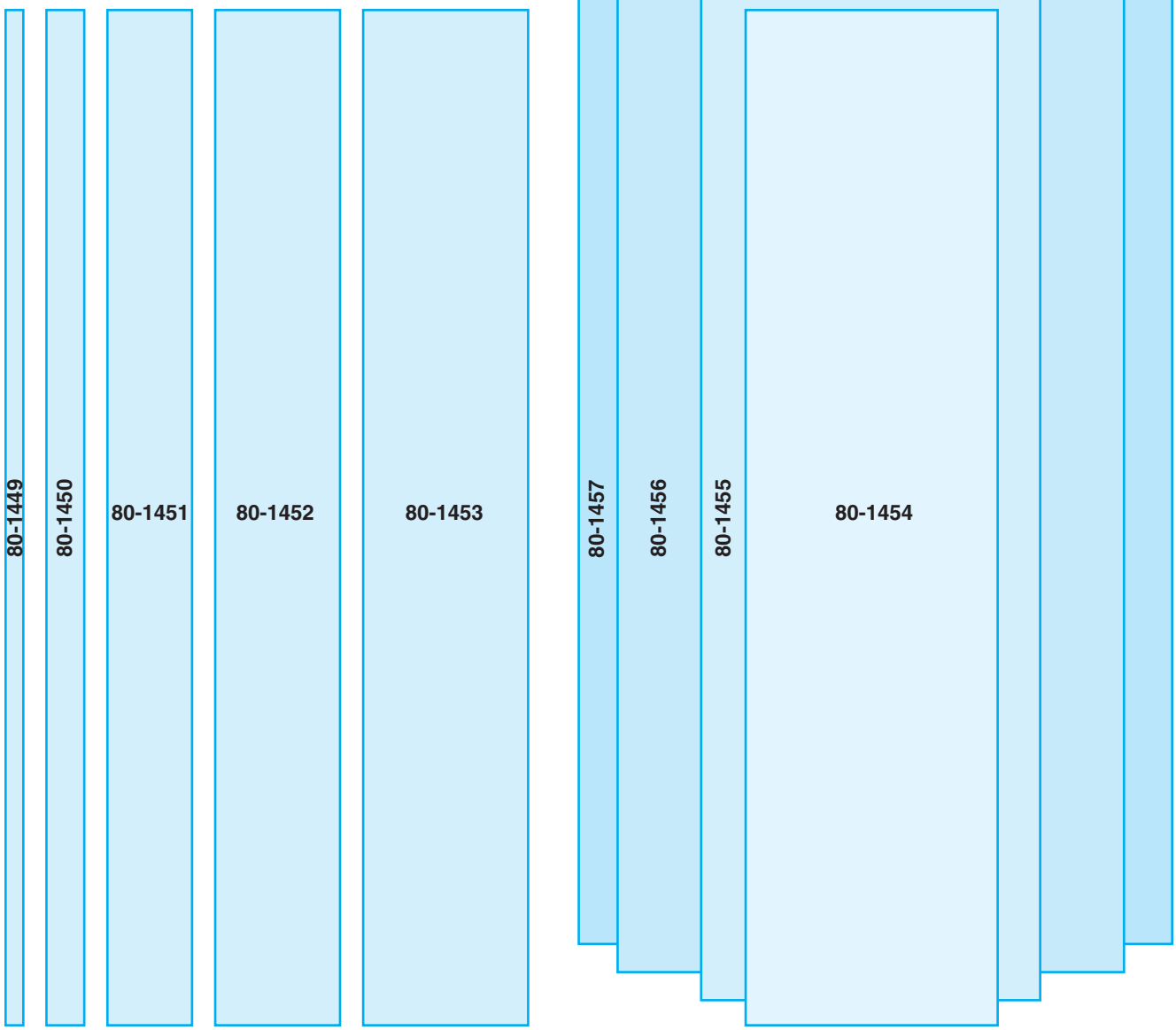


SPONGE, BICOL

80-1460	BICOL* Collagen Sponge, sterile. The BICOL Sponges are 3″ (76mm) x 4″ (102mm) and packaged individually sterile, sold ten packages per box.

CODMAN Surgical Strips, sterile, X-ray detectable, 10 strips per package, 20 packages per dispenser box.

80-1449	1/8″ x 6″	(3 x 152mm)
80-1450	1/4″ x 6″	(6 x 152mm)
80-1451	1/2″ x 6″	(13 x 152mm)
80-1452	3/4″ x 6″	(19 x 152mm)
80-1453	1″ x 6″	(25 x 152mm)
80-1454	1 1/2″ x 6″	(38 x 152mm)
80-1455	2″ x 6″	(51 x 152mm)
80-1456	3″ x 6″	(76 x 152mm)
80-1457	3 1/2″ x 6″	(89 x 152mm)



PUMPS, INFUSION - ARCHIMEDES

88-0520	Archimedes Pump, Flow Rate: 0,5ml/24h / Reservoir: 20ml
88-0820	Archimedes Pump, Flow Rate: 0,8ml/24h / Reservoir: 20ml
88-1020	Archimedes Pump, Flow Rate: 1,0ml/24h / Reservoir: 20ml
88-1320	Archimedes Pump, Flow Rate: 1,3ml/24h / Reservoir: 20ml
88-1520	Archimedes Pump, Flow Rate: 1,5ml/24h / Reservoir: 20ml
88-0535	Archimedes Pump, Flow Rate: 0,5ml/24h / Reservoir: 35ml
88-0835	Archimedes Pump, Flow Rate: 0,8ml/24h / Reservoir: 35ml
88-1035	Archimedes Pump, Flow Rate: 1,0ml/24h / Reservoir: 35ml
88-1335	Archimedes Pump, Flow Rate: 1,3ml/24h / Reservoir: 35ml
88-1535	Archimedes Pump, Flow Rate: 1,5ml/24h / Reservoir: 35ml
88-2035	Archimedes Pump, Flow Rate: 2,0ml/24h / Reservoir: 35ml
88-0540	Archimedes Pump, Flow Rate: 0,5ml/24h / Reservoir: 40ml
88-0840	Archimedes Pump, Flow Rate: 0,8ml/24h / Reservoir: 40ml
88-1040	Archimedes Pump, Flow Rate: 1,0ml/24h / Reservoir: 40ml
88-1340	Archimedes Pump, Flow Rate: 1,3ml/24h / Reservoir: 40ml
88-1540	Archimedes Pump, Flow Rate: 1,5ml/24h / Reservoir: 40ml
88-2040	Archimedes Pump, Flow Rate: 2,0ml/24h / Reservoir: 40ml
88-3040	Archimedes Pump, Flow Rate: 3,0ml/24h / Reservoir: 40ml
88-0550	Archimedes Pump, Flow Rate: 0,5ml/24h / Reservoir: 50ml
88-1050	Archimedes Pump, Flow Rate: 1,0ml/24h / Reservoir: 50ml
88-1350	Archimedes Pump, Flow Rate: 1,3ml/24h / Reservoir: 50ml
88-1550	Archimedes Pump, Flow Rate: 1,5ml/24h / Reservoir: 50ml
88-2050	Archimedes Pump, Flow Rate: 2,0ml/24h / Reservoir: 50ml
88-3050	Archimedes Pump, Flow Rate: 3,0ml/24h / Reservoir: 50ml
88-4050	Archimedes Pump, Flow Rate: 4,0ml/24h / Reservoir: 50ml
88-0560	Archimedes Pump, Flow Rate: 0,5ml/24h / Reservoir: 60ml
88-0860	Archimedes Pump, Flow Rate: 0,8ml/24h / Reservoir: 60ml
88-1060	Archimedes Pump, Flow Rate: 1,0ml/24h / Reservoir: 60ml
88-1360	Archimedes Pump, Flow Rate: 1,3ml/24h / Reservoir: 60ml
88-1560	Archimedes Pump, Flow Rate: 1,5ml/24h / Reservoir: 60ml
88-2060	Archimedes Pump, Flow Rate: 2,0ml/24h / Reservoir: 60ml
88-3060	Archimedes Pump, Flow Rate: 3,0ml/24h / Reservoir: 60ml
88-4060	Archimedes Pump, Flow Rate: 4,0ml/24h / Reservoir:

Archimedes with reduced Profile

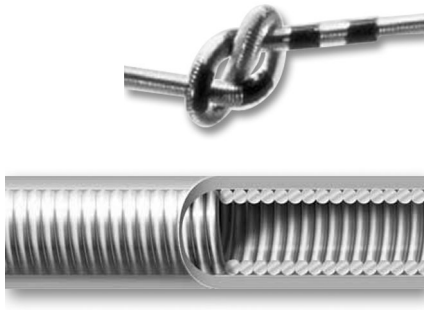
- WITHOUT Bolus Septum
- LOW PROFILE Refill Septum

0128 CSD Archimedes Pump, Flow Rate: 0,5ml/ 24h / Reservoir : 20ml
0132 CSD Archimedes Pump, Flow Rate: 0,8ml/24h / Reservoir : 20ml

The Archimedes Implantable Infusion Pump Delivery Box contains:

	Archimedes Implantable Infusion Pump
60-2914	Pump catheter with integrated adapter to connect with Archimedes outlet
60-2950	CODMAN® Catheter Connector and Strain Relief Sleeve
60-2924	CODMAN® Refill Kit (AS 10) for ARCHIMEDES® Pumps
60-2922	CODMAN® Bolus Kit (BS 10) for ARCHIMEDES® Pumps

	Refill and Bolus Kits for Archimedes®
60-2924	CODMAN® Refill Kit (AS 10) for ARCHIMEDES® Pumps Contents: 10ml collection syringe barrel and stopper, 60ml syringe, 10ml syringe, 3-way stopcock, Connecting tubes (2), Filling needles (2), filter
60-2926	CODMAN® Refill Kit (AS 10) for ARCHIMEDES® Pumps, 6 refill kits in one box Contents: like code 60-2924, 6EA in one box
60-2922	CODMAN® Bolus Kit (BS 10) for ARCHIMEDES® Pumps Contents: 10ml Syringes (2), Tubing with stopcock, Special Bolus Needles (2), Sterile Filter



	FlexTip Plus Catheters for Codman Implantable infusion Pumps
70020	FlexTip Plus Intraspinal Catheter Kit (for intrathecal usage) with integrated Titanium coil Contents: FlexTip Plus® (19G, O.D. 1.0mm, I.D. 0.5mm), material: Polyurethane, pre-loaded stylet / Catheter threading guide / Catheter Connector / Catheter Anchor / 17G T.W. Tuohy nee dle with stylet and attachable winged hub, 9.8cm with cm-markings / Snap Lock / / 36“ ruler
AP-08100	FlexTip Plus **Epidural** Catherization Kit Contents: Epidural Catheter: 19 Ga. FlexTip Plus® with Stylet, Snaplock™ Adapter, Threading Assist Device, Hustead Needle: 17 Ga. x 3-7/8” (9.84cm) TW with cm markings, Injection Needle: 22 Ga. x 1-1/2” (3.81cm), Injection Needle: 25 Ga. x 1” (2.54cm), Tuohy Needle: 17 Ga. x 3-1/2” (8.89cm) TW with cm markings, Syringe: 5cc Luer-Slip Loss of Resistance, Glass, Syringe: 3cc Luer-Lock, CSR Wrap, Drape: 24” x 36” with 4” fenestration, with adhesive, Filter: 5 Micron Straw, Filters: 0.2 Micron Flat, Needle Holder, Scalpel: #11, Wing Clip: Hub, Suture: 3-0 Nylon with Curved Needle, Tapes: Steri-Strip®, SharpsAway II™ Disposable Cup
AP-08101	FlexTip Plus **Epidural** Catherization Set Contents: Epidural Catheter: 19 Ga. FlexTip Plus® with Stylet, Snaplock™ Adapter, Threading Assist Devic, (Hustead Needle: 17 Ga. x 3-7/8” (9.84cm) TW with cm markings Set Catheterization Kit
AP-07012	Catheter Tunneler (46cm)
70032	Replacement Anchors for Flextip plus
70029	Replacement Connector for Flextip plus with strain relief sleeve

PUMPS, INFUSION - ACCESSORIES

	Intraspinal Silicone Catheters and Other Accessories
60-2918	CODMAN® One-Piece Intrathecal Catheter Kit for ARCHIMEDES® Pumps Contents: Intrathecal catheter (100cm) with female luer connector and pre-loaded guide wire, Filter, 14G Tuohy needle, Injection port, Female luer connector, Male luer cap, Silicone tube, Pump connector strain relief sleeves (2), 90-degree pump connector, 0-degree pump connector, Catheter connector strain relief sleeves (2), Catheter connector (Titanium), Winged anchors (2), 90-degree anchor, Ruler
60-2923	Trial Catheter Kit, to connect to 60-2918 or 70020 Content: Trial Catheter, Latex Free Injection Port, Male Luer Cap
60-2914	Pump Catheter for Archimedes
60-2920	CODMAN® Tunneler (36cm) For use with Intrathecal Catheters, 6 units in one box
60-2950	CODMAN® Catheter Connector and Strain Relief Sleeve
AP-01007	A-Port Implantable Vascular Access system

	External Infusion Pumps
AP-08200	MicroJect PCA System Kit Contents: MicroJect® External Infusion Pump, Infusion Pump Cassette, Patient Carrying Pouch (250 mL) with strap, Pump Lockout Cover, (2) “AA” Batteries, Epidural Catheterization Kit (AP-08100) (restricted availability)
AP-08201	MicroJect PCA System - Replaceable Components (same contents like code AP-08200 less MicroJect Pump)
AP-08002	Arrow MicoJect PCA Cassette

	Patient Passport for Refill Documentation and Implant Carrier proof
LCN 198703-001	Patient Passport, tri-lingual (English, German, French)
LCN 198703-002	Patient Passport, (English, Italian, Portuguese, Spanish)
LCN 198703-003	Patient Passport, (English, Dutch, Danish, Swedish)
LCN 198703-004	Patient Passport, (English, Norwegian, Finnish, Greek)

All codes available in 11 languages: EN, DE, FR, ES, IT, NL, SE, DK, PT, GR, FN

	Other Refill Kits
60-2904	Refill Set AS 01 for Anscühtz IP 35.1
60-2901	Bolus Set BS 01 for Anschütz IP 35.1
60-2905	Refill Set AS 03 for Anschütz IP 20.1
60-2902	Bolus Set BS 03 for Anschütz IP 20.1
AP-07014	Model 3000 Series Refill Set 50mL Codman Calibrated Syringe Barrel, Tubing Set, Stopcock, Codman Huber Point Needles; 22 Ga. x 1.5" (3.8cm), (3) Povidone-Iodine Swabsticks, (3) Alcohol Swabsticks, (6) Gauze Pads, Fenestrated Drape, Data Sticker, (2) Adhesive Bandages, Refill Worksheet, Instructions for Use Booklet, (2) Instructions Posters
AP 04030	Non-coring Refill Needles, 22 Ga. X 2", Straight, (15 EA)
AP 04013-5	Special Bolus Needle, 1-3/8", Straight, (5EA)
AP 04034-5	Special Winged Bolus Needle, (5EA)
IP 40812	Infusaid: Model 400 Refill Tubing Set
IP 40820	Infusaid: Model 400 Refill Kit

	Agile Epidural Catheter
AP-01900	AGILECATH Epidural Catheter Introducer
AP-01931	AGILECATH (19 Ga., 31cm) Epidural Catheter with Stylet (10EA / Box) Contents: Agile epidural Catheter, snaplock Adapter, Epidural Catheter Introducer: 17 Ga. Radiopaque Polyurethane with, Integral Suture Wing, Epidural Needle: 17 Ga. x 3-7/8", (9.84cm) TW with cm markings
AP-01960	AGILECATH (19 Ga., 60cm) Epidural Catheter with Stylet(10EA / Box) Contents: Agile epidural Catheter, snaplock Adapter, Epidural Catheter Introducer: 17 Ga. Radiopaque Polyurethane with, Integral Suture Wing, Epidural Needle: 17 Ga. x 3-7/8", (9.84cm) TW with cm markings
AP-01990	AGILECATH (19 Ga., 90cm) Epidural Catheter with Stylet (10EA / Box) Contents: Agile epidural Catheter, snaplock Adapter, Epidural Catheter Introducer: 17 Ga. Radiopaque Polyurethane with, Integral Suture Wing, Epidural Needle: 17 Ga. x 3-7/8", (9.84cm) TW with cm markings

SHUNTS, ANTIMICROBIAL CATHETER

	CODMAN BACTISEAL Catheters
82-3072	CODMAN BACTISEAL Catheter Kit contains one each: 14cm Ventricular Catheter 120cm Peritoneal Catheter
82-3073	CODMAN BACTISEAL Ventricular Catheter
82-3074	CODMAN BACTISEAL Peritoneal Catheter

BACTISEAL Clinical references

J Neurosurg 99:831–839, 2003

Evaluation of an antibiotic-impregnated shunt system for the treatment of hydrocephalus

Soma T. Govender, M.D., M.MED., Narendra Nathoo, M.D., PH.D., and James R. Van Dellen, M.D., PH.D., F.R.C.S.

Department of Neurosurgery, Wentworth Hospital, Nelson R. Mandela School of Medicine, University of Natal, Durban, South Africa; Department of Neurosurgery, Cleveland Clinic Foundation, Cleveland, Ohio; West London Neurosciences Centre; and Imperial College School of Medicine, Charing Cross Hospital, London, United Kingdom

Childs Nerv Syst (2005) 21:56–61 DOI 10.1007/s00381-004-1052-x ORIGINAL PAPER

Initial experience with antibiotic-impregnated silicone catheters for shunting of cerebrospinal fluid in children

Henry E. Aryan. Hal S. Meltzer. Min S. Park. Rebecca L. Bennett. Rahul Jandial.

Michael L. Levy Division of Neurosurgery, Children's Hospital, San Diego, CA, USA

J Neurosurg 87:247–251, 1997

Duration of protective activity of cerebrospinal fluid shunt catheters impregnated with antimicrobial agents to prevent bacterial catheter-related infection.

Roger Bayston, M.MED.SCI., PH.D., M.SC., F.R.C.PATH., and Emma Lambert, H.N.D.

University of Nottingham Division of Microbiology and Infectious Diseases, City Hospital, Nottingham, England; and Nottingham Trent University, Nottingham, England

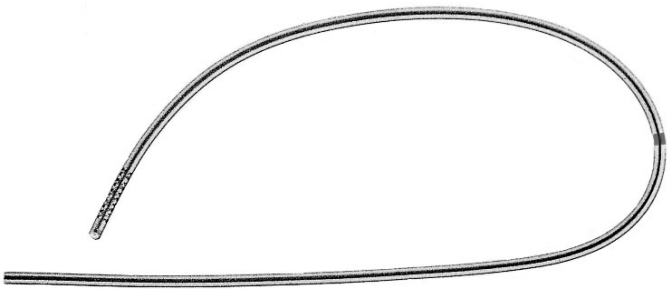
SHUNT SYSTEMS, CATHETERS, VENTRICULAR

83-1371	Slit Ventricular Catheter Pre-slit HOLTER® design ventricular catheter for endoscopic shunt placement. Barium-impregnated radiopaque silicone tubing with multiple tip perforations. I.D. 1.5mm, O.D. 3mm, length 15cm X-ray detectable dots: one dot at 5cm from the tip, two dots at 10cm from the tip Packaged sterile.

All ventricular catheters are packaged sterile and are made from silicone tubing, 1.3mm I.D. x 2.5mm O.D.

82-1201 ACCU-FLO* Barium Ventricular Catheter, sterile.
X-ray detectable throughout. Rounded X-ray detectable tantalum tip. X-ray detectable tantalum markings, 5cm and 10cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.
Length 15cm

82-1203 ACCU-FLO* Clear Ventricular Catheter, sterile.
Rounded X-ray detectable tantalum tip. X-ray detectable tantalum mark at 15cm. With 40 inlet holes, four rows of ten holes, 90° apart.
Length 30cm

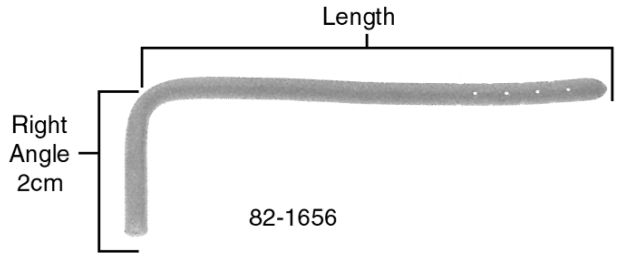


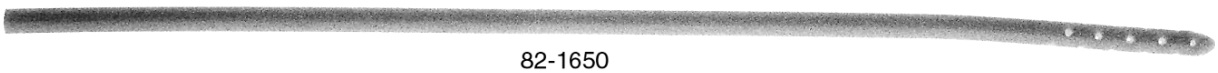
82-1221 ACCU-FLO* Dotted Ventricular Catheter, sterile.
Rounded X-ray detectable tantalum tip. Clear silicone tubing with X-ray detectable tantalum markings every 1cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.
Length 15cm

SHUNT SYSTEMS, CATHETER, VENTRICULAR

82-3041 CODMAN Ventricular Catheter, 14cm
Supplied with stylet, introducer, and right angle adaptor.
(1.4mm I.D. x 2.7mm O.D.)

82-3073 CODMAN BACTISEAL Ventricular Catheter, 14cm
Supplied with stylet, introducer, and right angle adaptor.
(1.4mm I.D. x 2.7mm O.D.)





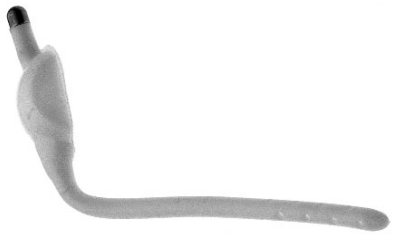
82-1650

CODMAN's HOLTER* System provides both straight and right angle ventricular catheters. The right angle catheters are designed for use when a reservoir is not required. All ventricular catheters have a 3.1mm O.D. and a 1.5mm I.D.. All ventricular tips have multiple perforations. HOLTER* Ventricular Catheters are barium impregnated X-ray detectable and are supplied sterile with a stainless steel sterile stylet to assist in implantation.

HOLTER* Ventricular Catheter, barium, right angle, sterile.
Length

82-1652 3cm
82-1654 4cm
82-1658 6cm
82-1660 7cm
82-1662 8cm

82-1650 HOLTER* Ventricular Catheter, barium, straight, sterile.
Length 15cm

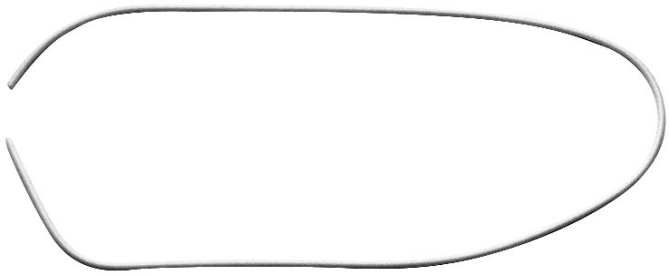


HOLTER* Ventricular Catheter - Reservoirs (also referred to as Cerebral Catheter Reservoirs)
The Ventricular Catheter-Reservoir is an all silicone rubber reservoir and right-angle catheter molded together as one unit, X-ray detectable. The dome-shaped reservoir has a base made of reinforced sheeting, coated with silicone rubber. The reservoir has a height of 6.0mm, and the base, which extends beyond the diameter of the reservoir to accommodate sutures, has a diameter of 15.7mm.
The catheter segment and distal end of the Catheter-Reservoir has a 1.5mm inside diameter and a 3.1mm outside diameter. The distal end of the Catheter-Reservoir is designed to accommodate the inlet adapter of a HOLTER* Valve when the reservoir is used in a shunt system.
Included with the HOLTER* Ventricular Catheter Reservoir are:
A stainless steel stylet, for the insertion of the ventricular portion of the catheter.
A stainless steel plug, inserted in the distal end of the reservoir. Note: The plug should be removed when the HOLTER* Ventricular Catheter-Reservoir is being used in a shunt system.

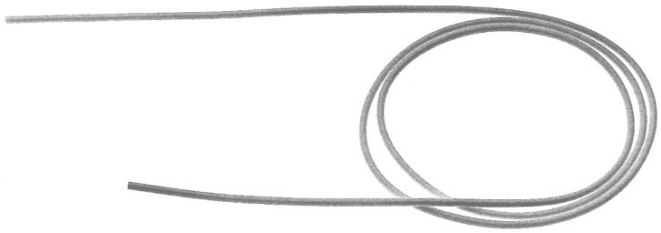
HOLTER* Ventricular Catheter-Reservoir, barium, right angle, sterile.

	Length
82-1630	3cm
82-1632	4cm
82-1634	5cm
82-1636	6cm
82-1638	7cm
82-1640	8cm
82-1642	9cm

SHUNT SYSTEMS CATHETERS, ATRIAL



82-3044 CODMAN Atrial Catheter, 46cm
(1mm I.D. x 2.2mm O.D.)



HOLTER* Distal Atrial Catheters, sterile, barium impregnated with two lumen configurations to meet various shunting needs. Large lumen styles have an I.D. of 1.2mm and an O.D. of 2.5mm. The small, or stepped down portion lumen have an I.D. of .8mm and an O.D. of 1.3mm.

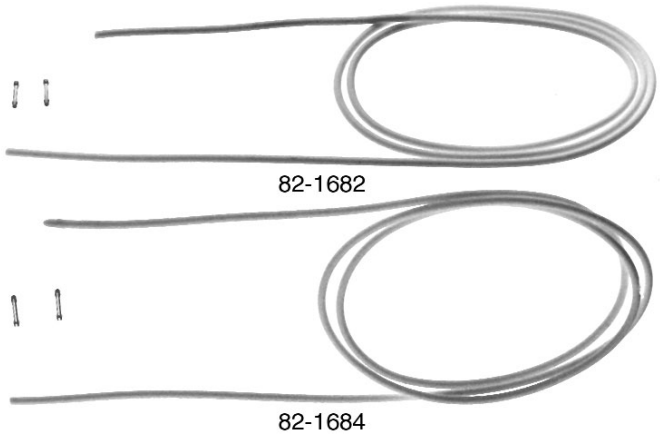
82-1670 HOLTER* Distal Atrial Catheter, Type A, barium, sterile. Large lumen Catheter.
Total length 45cm
Supplied with two sterile 82-1694 HOLTER* Type A connectors.

82-1676 HOLTER* Distal Atrial Catheter, Type E, barium, sterile.
Small Catheter Length 24cm
Large Catheter Length 24cm
Total length 48cm
Supplied with one sterile 82-1694 HOLTER* Type A Connector.

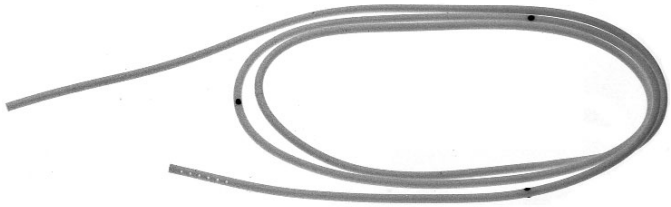
HOLTER* Distal Peritoneal Catheters, barium, sterile.
Barium impregnated with an I.D. of 1.2mm and an O.D. of 2.5mm. Supplied with two sterile 82-1694 HOLTER* Type A connectors.
Length 90cm

82-1682 Open end

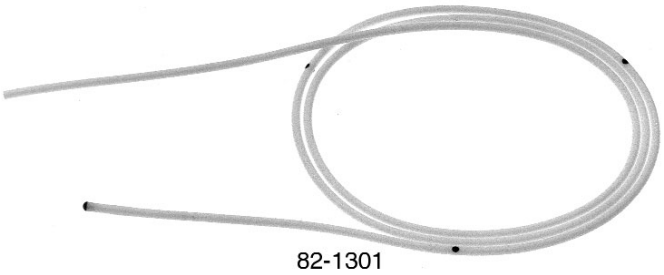
82-1684 SALMON style, closed distal tip with four side slits 90° apart. The tip is solid silicone and is more heavily opacified for positive X-ray identification.



82-1380 ACCU-FLO* Barium Distal Open End Catheter, sterile.
Made of barium impregnated silicone tubing or spring imbedded clear silicone tubing, 1.3mm I.D. x 2.5mm O.D. X-ray detectable. Each catheter has 24 drainage holes, four rows of six holes, 90° apart. X-ray detectable tantalum markings are at the distal 10cm, 20cm, and 30cm.
Length 91cm



SHUNT SYSTEMS, CATHETERS, PERITONEAL



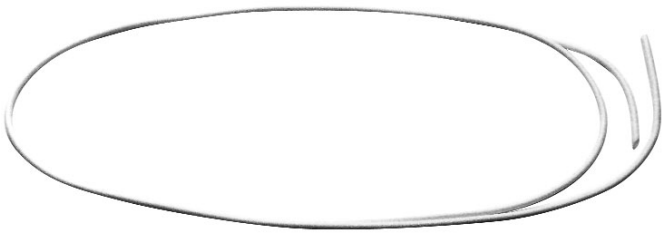
82-1301

ACCU-FLO* Catheters, Distal Slit Valve

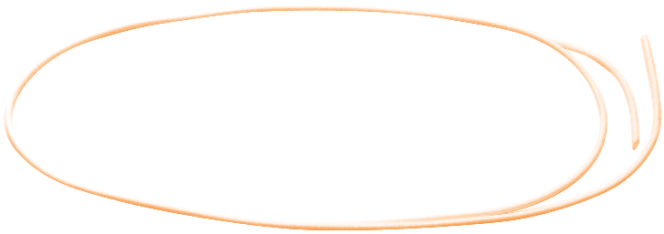
ACCU-FLO* Distal Catheters are made of silicone tubing, 1.3mm I.D. x 2.5mm O.D. Each catheter has a rounded X-ray detectable tantalum tip. The slit valves in CODMAN's distal valve catheters are 90° apart, and are precisely cut by specially designed machines to achieve more consistent closing pressures.
The pressure of each valve catheter is tested before it is packaged. The dots on each valve catheter indicate the pressure:
• One dot = Low Pressure
2–5 cm H_2O closing pressure
•• Two dots = Medium Pressure
5–9 cm H_2O closing pressure
••• Three dots = High Pressure
9–14 cm H_2O closing pressure

ACCU-FLO* BARIUM Distal Slit Valve
Catheter, sterile, X-ray detectable throughout. X-ray detectable tantalum markings are located 10cm, 20cm, and 30cm from tip.
Length 91cm
Closing Pressure
(Measured in cm of Water)

82-1303 9-14cm H_2O High Pressure

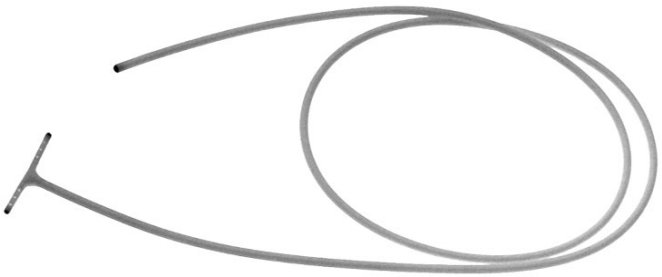


82-3045 CODMAN Peritoneal Catheter, 120cm
(1mm I.D. x 2.2mm O.D.)



82-3074 CODMAN BACTISEAL Peritoneal Catheter, 120cm
(1mm I.D. x 2.2mm O.D.)

LUMBAR-PERITONEAL Catheters are designed for shunting from the subarachnoid space to the peritoneal cavity. This method provides a simple means of treating communicating hydrocephalus, and is an effective alternative to standard V.A. or V.P. shunts in the treatment of pseudotumor cerebri, cranial and spinal CSF fistula (non-infected), and recurrent bulging craniotomy sites.

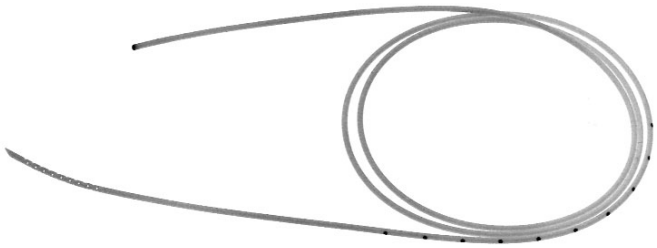


HOLTER* LUMBOPERITONEAL Catheters Manufactured as a one-piece silicone rubber with an I.D. of 1.2mm and an O.D. of 2.5mm. The 3cm T-portion has four sets of three proximal holes, and has 1.0mm I.D. and 1.8mm O.D. The peritoneal catheter end has three longitudinal slits (120° apart) to regulate flow and prevent reflux.

82-1698 HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 3.5mm slit valves.
Length 65cm

82-1699 HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 4.0mm slit valves.
Length 65cm

LUMBAR-PERITONEAL CATHETERS, JAMES design, one-piece, sterile. Pressure is controlled through distal slit valves (5–9cm H2O Medium Pressure), four slits 90° apart. The proximal tip is perforated, open ended and angled cut for easy insertion.

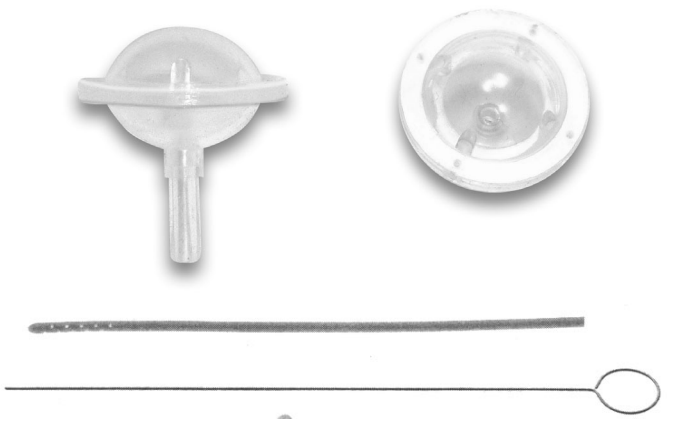


I.D. .76mm
O.D. 1.65 mm
Length

82-6200 25cm
82-6201 50cm
82-6202 80cm

Use the 45-1020 TOUHY Needle for the insertion of the JAMES LUMBAR-PERITONEAL Shunt into the spinal subarachnoid space.

SHUNT SYSTEMS, RESERVOIRS

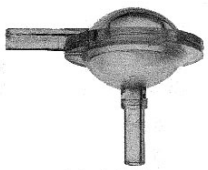


ACCU-FLO® CSF Reservoirs are made from one-piece puncturable silicone with an embedded plastic base, with suture holes for anchoring. Each reservoir has been pretested for pressure leaks and is packaged sterile.

Note:
A 25 gauge, or smaller, "Huber" type needle should be used to puncture the ACCU-FLO Reservoirs.

ACCU-FLO Reservoirs are used for ventricular medication or aspiration. Each one is provided with a barium ventricular catheter (82-1201) and a straight connector (82-1501).

82-6100	ACCU-FLO CSF Reservoir, 14mm, sterile, fits 14mm burr hole.
82-6101	ACCU-FLO CSF Reservoir, 24mm, sterile, fits 24mm burr hole.

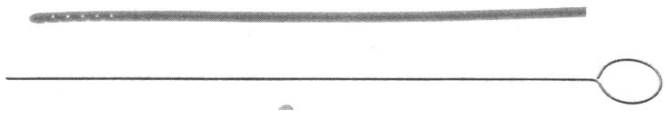


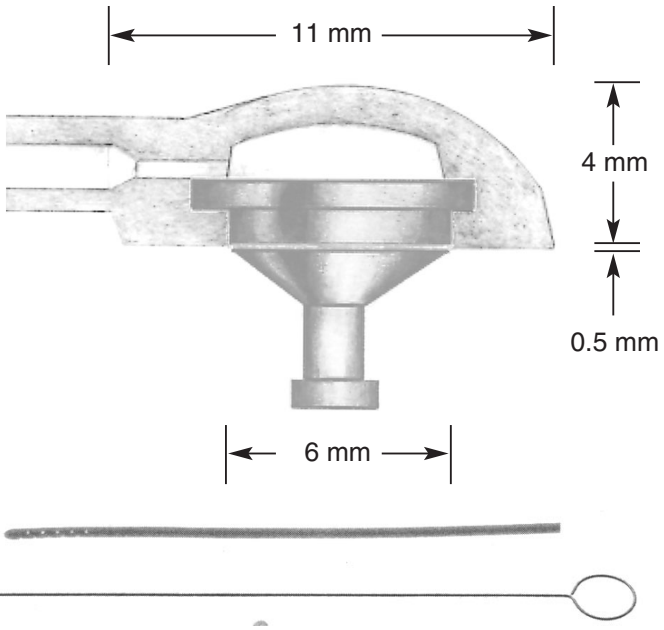
82-1401

82-1411

ACCU-FLO* Reservoirs, used in line in the ACCU-FLO* System, between the ventricular portion and distal catheter portion. Each reservoir has suture holes for anchoring purposes.

82-1401	ACCU-FLO* Burr Hole Reservoir, 14mm, sterile.
82-1411	ACCU-FLO* Single Dome Flat Bottom Reservoir, sterile, with reinforced backing.





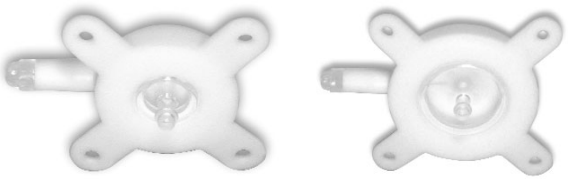
HOLTER* SALMON-RICKHAM
Ventriculostomy Reservoir, low profile, sterile.

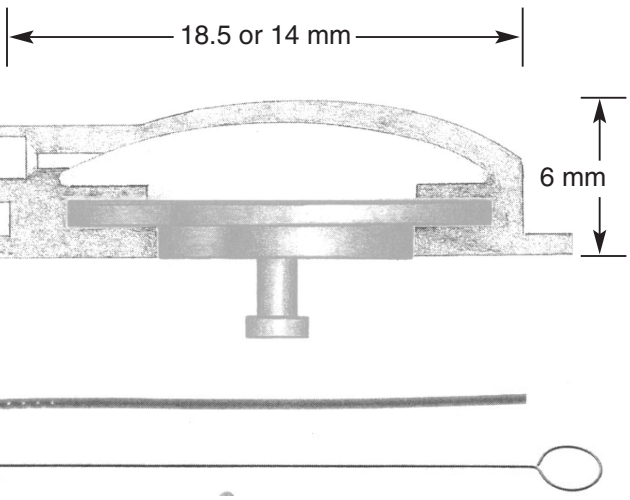
82-1625 Stainless Steel Base

82-1617 Plastic Base

Designed for pediatric use. Ideal for seating in very thin to medium thickness cranium. Requires a 6mm burr hole or drilled-skull recess.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.





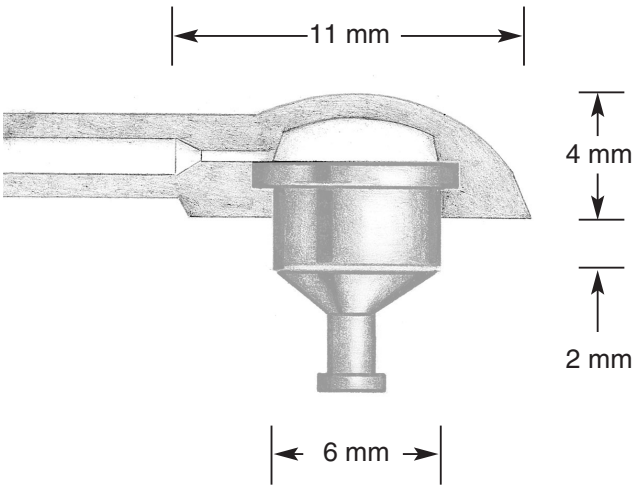
HOLTER* SELKER Ventriculostomy Reservoir, Small.

82-1618 14mm cap diameter, plastic base.
Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (14mm cap diameter) for puncturing and a low profile recommended for pediatric use.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

Large.

82-1619 18mm cap diameter, plastic base.

*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.



HOLTER* Ventriculostomy Reservoirs

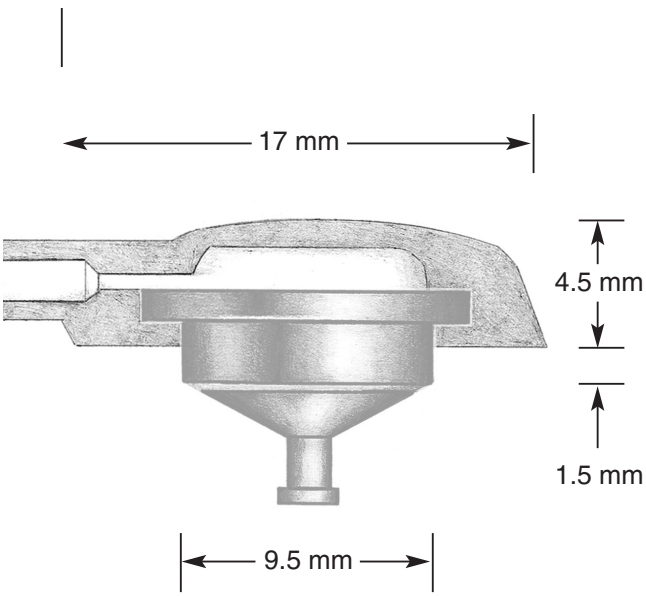
The HOLTER* Reservoirs are used for both ventriculostomies and for connection to the HOLTER* Valves. Reservoirs; stainless steel or plastic base; removable, puncturable silicone rubber cap for convenience.
Each is supplied with:
(82-1650) Ventricular Catheter, 15cm straight, Ventricular Catheter stylet, sterile.

HOLTER* RICKHAM Ventriculostomy Reservoirs, standard, sterile.

82-1621 Stainless-steel base
82-1615 Plastic base

Requires a 6mm burr hole or skull recess.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.



HOLTER* RICKHAM Ventriculostomy Reservoir, large, sterile.

82-1623 stainless-steel base
82-1616 plastic base

Intended for older children and adults.
Requires a 9.5mm burr hole or drilled-skull recess.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

All ACCU-FLO* Connectors are 316-L stainless steel or plastic, 1.0mm I.D. x 1.9mm O.D. with beveled ends. Each is X-ray detectable and packaged sterile. The connectors are grooved to hold sutures for preventing catheter disconnection.

ACCU-FLO* Right Angle Connectors, sterile.

82-1507 Plastic
82-1511 Metal

ACCU-FLO* Straight Connectors, sterile.

Plastic	Length	17mm
Metal	Length	11mm

82-1504 Plastic
82-1501 Metal

ACCU-FLO* Three Way Connectors, Y-shaped, sterile, with a straight metal or plastic non-spring connector in each leg.

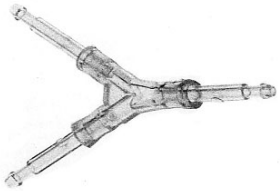
82-1520 Plastic
82-1521 Metal

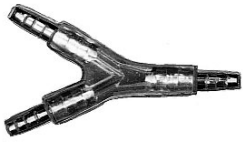
82-1507

82-1511

82-1504

82-1501

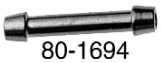

82-1520


82-1521

82-3049 Right Angle Connector
Stainless steel (1.02mm I.D. x 1.91mm O.D.)
Sterile

82-3048 Straight Connector
Stainless steel (1.07mm I.D. x 2.08mm O.D.)
Sterile

SHUNT SYSTEMS, CONNECTORS



80-1694

80-1695

82-1694 HOLTER* Type A Connector, stainless steel, five per pack, non-sterile.
Length 10.4mm
Sterile Type A connectors are supplied with the following HOLTER* products:
two each with 82-1670 Type A Atrial Catheter
one each with 82-1676 Type E Atrial Catheter
two each with 82-1697 Stunt Filter
two each with 82-1682 Type A Peritoneal Catheter
two each with 82-1684 SALMON Peritoneal Catheter

82-1695 HOLTER* Type B Connector, stainless steel, five per pack, non-sterile.
Length 8mm
Sterile Type B connectors are supplied with the following HOLTER* products:
two each with 82-1672 Type B Atrial Catheter

82-1696 HOLTER* Type T Connector, one per pack, non-sterile.
For bilateral drainage with one valve or for multiple connectors using ventricular catheters.

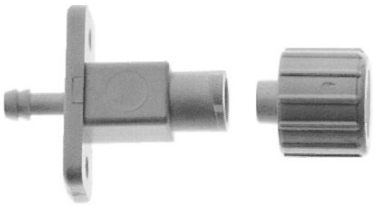
SHUNT SYSTEMS, ACCESSORIES, CLIPS

82-8591 UNI-SHUNT* with Reservoir Anchoring Clip, sterile, two clips per package.
A one piece right angle clip, used to anchor the ventricular and distal ends of the UNI-SHUNT* with Reservoir Catheter in position.
Each UNI-SHUNT* with Reservoir Catheter Kit is supplied with one 82-8591 Anchoring Clips.

SHUNT SYSTEMS, ACCESSORIES, INTRODUCER

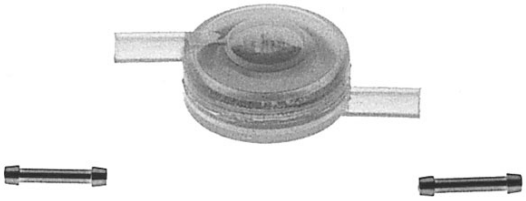
82-8594 UNI-SHUNT* with Reservoir Introducer, sterile, disposable.
Used to place the proximal end of the UNI-SHUNT* with Reservoir Catheter into the ventricles.
Each UNI-SHUNT* with Reservoir Catheter Kit is supplied with one 82-8594 Introducer.

16-1057 CODMAN Disposable ICP Luer Lock Connector, sterile, consists of a female luer lock connector and a male luer lock cap. Designed to connect a silicone ventricular catheter (I.D. from 1.3mm to 1.5mm) to a CSF drainage or monitoring device. May be used to occlude ventricular catheter by utilising male luer lock cap.



SHUNT SYSTEMS, ACCESSORIES

82-3052 Right Angle Adaptor, plastic



82-1697 HOLTER* In-Line Shunt Filter, sterile. A 3.9 micron cellulosic filter designed specifically for use with the HOLTER* Shunt System to prevent the transfer of cells larger than 3.9 microns through the system. The filter has a surface area of 68 square millimeters supported in a stainless steel mesh and totally encased in silicone. The silicone casing contains an inlet and outlet port, both with an I.D. of 1.5mm, for connection to the shunt system. The filter can be implanted just behind the mastoid air cells so it is exposed to the radiotherapy field, if radiotherapy is used. The HOLTER* In-Line Shunt Filter is packaged sterile. Each package contrains one filter and two sterile 82-1694 HOLTER* Type A connectors.

SHUNT SYSTEMS, PASSERS

82-1715 HOFFMAN Shunt Passer, short, stainless steel, non-sterile.
Used for the subcutaneous passage and placement of the distal peritoneal catheter. After subcutaneous tunneling, the malleable passer is connected to a suction source to provide quick positioning of the distal catheter.

Tube I.D.	3.2mm
Tube O.D.	4.2mm
Total length	45.7cm

82-1716 HOFFMAN Shunt Passer, long, stainless steel, non-sterile.

Tube I.D.	3.2mm
Tube O.D.	4.2mm
Total length	61.0cm

82-4095 Split Trocar, sterile, disposable. For the placement of the UNI-SHUNT* Catheter in both the ventricle and peritoneum. The unique open/close obturator prevents excessive loss of CSF in the ventricle.
Length 10cm

82-1692 HOLTER* Distal Catheter Passer, SALMON style, stainless steel, non-sterile.
Used for subcutaneous passage and placement of an atrial or peritoneal catheter. The catheter is passed through the tubular body of the instrument.
Tube I.D. 3.2mm
Tube O.D. 4.2mm
Total lenth 35.5cm

82-1693 HOLTER* Distal Catheter Placement Instrument, stainless steel, non-sterile. For the subcutaneous passage and placement of the Distal Peritoneal Catheter.
Rod O.D. 3.2mm
Tip 7mm
Hole Diameter 2.75mm
Total length 56cm

MALLEABLE Catheter Passers, used to pass the distal catheter to the peritoneum. Each 90cm and 102cm UNI-SHUNT* Catheter Kit is also supplied with one Long Catheter Passer.

82-1515 MALLEABLE Catheter Passer, short, sterile, disposable. Packaged individually, six per case.
Length 36cm

82-1516 MALLEABLE Catheter Passer, long, sterile, disposable. Packaged individually, six per case.
Length 55cm

82-1517 MALLEABLE Catheter Passer, xlong, sterile, disposable. Packaged individually, six per case.
Length 65cm

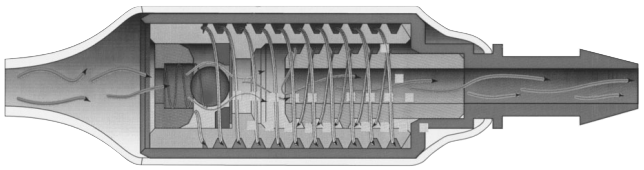
SHUNT SYSTEMS, PASSERS

45-1020 TOUHY Needle, 14 Gauge, non-sterile, used for the insertion of the JAMES LUMBAR-PERITONEAL Catheter.

Length	3½″	(90mm)
I.D.	.063 inches	
O.D.	.083 inches	

Needle length given is exclusive of hub and stylet.

SHUNT SYSTEMS, ANTI-SYPHON DEVICES



82-3090 SIPHONGUARD™ CSF Flow Control Device

Precision Fixed Valves
Include: Precision Pressure Valve, Information manual, straight connector[s]*, Introducer**, and priming adaptor [supplied where needed]

		Pressure Range		
82-5461	INLINE with siphonguard	Very Low	▪	10mm H^2O
82-5162	INLINE with siphonguard	Low	▪▪	40mm H^2O
82-5463	INLINE with siphonguard	Medium	▪▪▪	70mm H^2O
82-5464	INLINE with siphonguard	Medium High	▪▪▪▪	100mm H^2O
82-5465	INLINE with siphonguard	High	▪▪▪▪▪	130mm H^2O
82-5471	INLINE	Very Low	▪	10mm H^2O
82-5472	INLINE	Low	▪▪	40mm H^2O
82-5473	INLINE	Medium	▪▪▪	70mm H^2O
82-5474	INLINE	Medium High	▪▪▪▪	100mm H^2O
82-5475	INLINE	High	▪▪▪▪▪	130mm H^2O
82-5481	RIGHT ANGLE with SIPHONGUARD	Very Low	▪	10mm H^2O
82-5482	RIGHT ANGLE with SIPHONGUARD	Low	▪▪	40mm H^2O
82-5483	RIGHT ANGLE with SIPHONGUARD	Medium	▪▪▪	70mm H^2O
82-5484	RIGHT ANGLE with SIPHONGUARD	Medium High	▪▪▪▪	100mm H^2O
82-5485	RIGHT ANGLE with SIPHONGUARD	High	▪▪▪▪▪	130mm H^2O
82-5491	RIGHT ANGLE	Very Low	▪	10mm H^2O
82-5492	RIGHT ANGLE	Low	▪▪	40mm H^2O
82-5493	RIGHT ANGLE	Medium	▪▪▪	70mm H^2O
82-5494	RIGHT ANGLE	Medium High	▪▪▪▪	100mm H^2O
82-5495	RIGHT ANGLE	High	▪▪▪▪▪	130mm H^2O
82-3011	CYLINDRICAL with prechamber	Very Low	▪	10mm H^2O
82-3012	CYLINDRICAL with prechamber	Low	▪▪	40mm H^2O
82-3013	CYLINDRICAL with prechamber	Medium	▪▪▪	70mm H^2O
82-3014	CYLINDRICAL with prechamber	Medium High	▪▪▪▪	100mm H^2O
82-3015	CYLINDRICAL with prechamber	High	▪▪▪▪▪	130mm H^2O
82-3082	CYLINDRICAL	Very Low	▪	10mm H^2O
82-3083	CYLINDRICAL	Low	▪▪	40mm H^2O
82-3084	CYLINDRICAL	Medium	▪▪▪	70mm H^2O
82-3085	CYLINDRICAL	Medium High	▪▪▪▪	100mm H^2O
82-3086	CYLINDRICAL	High	▪▪▪▪▪	130mm H^2O
82-3095	MICRO with RICKHAM Reservior	Very Low	▪	10mm H^2O
82-3096	MICRO with RICKHAM Reservior	Low	▪▪	40mm H^2O
82-3097	MICRO with RICKHAM Reservior	Medium	▪▪▪	70mm H^2O
82-3098	MICRO with RICKHAM Reservior	Medium High	▪▪▪▪	100mm H^2O
82-3099	MICRO with RICKHAM Reservior	High	▪▪▪▪▪	130mm H^2O
82-3026	MICRO	Very Low	▪	10mm H^2O
82-3027	MICRO	Low	▪▪	40mm H^2O
82-3028	MICRO	Medium	▪▪▪	70mm H^2O
82-3029	MICRO	Medium High	▪▪▪▪	100mm H^2O
82-3030	MICRO	High	▪▪▪▪▪	130mm H^2O

* Provided with cylindrical and micro versions only
** Provided with cylindrical versions only

Pressures Quoted +/- 10mm H_2O

SHUNT SYSTEMS, FIXED PRESSURE VALVE & CATHETER, ***UNITISED SYSTEM***

PRECISION Fixed Valve System Unitised
Includes: Precision Pressure Valve, 14cm ventricular catheter, 120cm unitised peritoneal catheter, Information manual, straight connector[s]*, Introducer**, and priming adaptor [supplied where needed]

			Pressure Range	
82-3821	INLINE with SIPHONGUARD	Very Low	▪	10mm H^2O
82-3822	INLINE with SIPHONGUARD	Low	▪▪	40mm H^2O
82-3823	INLINE with SIPHONGUARD	Medium	▪▪▪	70mm H^2O
82-3824	INLINE with SIPHONGUARD	Medium High	▪▪▪▪	100mm H^2O
82-3825	INLINE with SIPHONGUARD	High	▪▪▪▪▪	130mm H^2O
82-3806	INLINE	Very Low	▪	10mm H^2O
82-3807	INLINE	Low	▪▪	40mm H^2O
82-3808	INLINE	Medium	▪▪▪	70mm H^2O
82-3809	INLINE	Medium High	▪▪▪▪	100mm H^2O
82-3810	INLINE	High	▪▪▪▪▪	130mm H^2O
82-3261	RIGHT ANGLE with SIPHONGUARD	Very Low	▪	10mm H^2O
82-3262	RIGHT ANGLE with SIPHONGUARD	Low	▪▪	40mm H^2O
82-3263	RIGHT ANGLE with SIPHONGUARD	Medium	▪▪▪	70mm H^2O
82-3264	RIGHT ANGLE with SIPHONGUARD	Medium High	▪▪▪▪	100mm H^2O
82-3265	RIGHT ANGLE with SIPHONGUARD	High	▪▪▪▪▪	130mm H^2O
82-3281	RIGHT ANGLE	Very Low	▪	10mm H^2O
82-3282	RIGHT ANGLE	Low	▪▪	40mm H^2O
82-3283	RIGHT ANGLE	Medium	▪▪▪	70mm H^2O
82-3284	RIGHT ANGLE	Medium High	▪▪▪▪	100mm H^2O
82-3285	RIGHT ANGLE	High	▪▪▪▪▪	130mm H^2O
82-3006	CYLINDRICAL with prechamber	Very Low	▪	10mm H^2O
82-3007	CYLINDRICAL with prechamber	Low	▪▪	40mm H^2O
82-3008	CYLINDRICAL with prechamber	Medium	▪▪▪	70mm H^2O
82-3009	CYLINDRICAL with prechamber	Medium High	▪▪▪▪	100mm H^2O
82-3010	CYLINDRICAL with prechamber	High	▪▪▪▪▪	130mm H^2O
82-3021	MICRO with RICKHAM Reservior	Very Low	▪	10mm H^2O
82-3022	MICRO with RICKHAM Reservior	Low	▪▪	40mm H^2O
82-3023	MICRO with RICKHAM Reservior	Medium	▪▪▪	70mm H^2O
82-3024	MICRO with RICKHAM Reservior	Medium High	▪▪▪▪	100mm H^2O
82-3025	MICRO with RICKHAM Reservior	High	▪▪▪▪▪	130mm H^2O
82-3035	MICRO	Very Low	▪	10mm H^2O
82-3036	MICRO	Low	▪▪	40mm H^2O
82-3037	MICRO	Medium	▪▪▪	70mm H^2O
82-3038	MICRO	Medium High	▪▪▪▪	100mm H^2O
82-3039	MICRO	High	▪▪▪▪▪	130mm H^2O

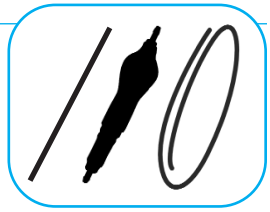
* Provided with cylindrical and micro versions only
** Provided with cylindrical versions only

Pressures Quoted +/- 10mm H_2O

Codman

SHUNT SYSTEMS, FIXED PRESSURE VALVE & *CATHETER SYSTEM*

PRECISION Fixed Valve System
Includes: Precision Pressure Valve, 14cm ventricular catheter, 120cm peritoneal catheter, Information manual, straight connector[s]*, Introducer**, and priming adaptor [supplied where needed]



			Pressure Range	
82-3811	INLINE with SIPHONGUARD	Very Low	▪	10mm H^2O
82-3812	INLINE with SIPHONGUARD	Low	▪▪	40mm H^2O
82-3813	INLINE with SIPHONGUARD	Medium	▪▪▪	70mm H^2O
82-3814	INLINE with SIPHONGUARD	Medium High	▪▪▪▪	100mm H^2O
82-3815	INLINE with SIPHONGUARD	High	▪▪▪▪▪	130mm H^2O

82-3816	INLINE	Very Low	▪	10mm H^2O
82-3817	INLINE	Low	▪▪	40mm H^2O
82-3818	INLINE	Medium	▪▪▪	70mm H^2O
82-3819	INLINE	Medium High	▪▪▪▪	100mm H^2O
82-3820	INLINE	High	▪▪▪▪▪	130mm H^2O

82-3361	RIGHT ANGLE with SIPHONGUARD	Very Low	▪	10mm H^2O
82-3362	RIGHT ANGLE with SIPHONGUARD	Low	▪▪	40mm H^2O
82-3363	RIGHT ANGLE with SIPHONGUARD	Medium	▪▪▪	70mm H^2O
82-3364	RIGHT ANGLE with SIPHONGUARD	Medium High	▪▪▪▪	100mm H^2O
82-3365	RIGHT ANGLE with SIPHONGUARD	High	▪▪▪▪▪	130mm H^2O

82-3361	RIGHT ANGLE	Very Low	▪	10mm H^2O
82-3362	RIGHT ANGLE	Low	▪▪	40mm H^2O
82-3363	RIGHT ANGLE	Medium	▪▪▪	70mm H^2O
82-3364	RIGHT ANGLE	Medium High	▪▪▪▪	100mm H^2O
82-3365	RIGHT ANGLE	High	▪▪▪▪▪	130mm H^2O

82-3001	CYLINDRICAL with prechamber	Very Low	▪	10mm H^2O
82-3002	CYLINDRICAL with prechamber	Low	▪▪	40mm H^2O
82-3003	CYLINDRICAL with prechamber	Medium	▪▪▪	70mm H^2O
82-3004	CYLINDRICAL with prechamber	Medium High	▪▪▪▪	100mm H^2O
82-3005	CYLINDRICAL with prechamber	High	▪▪▪▪▪	130mm H^2O

82-3016	CYLINDRICAL without prechamber	Very Low	▪	10mm H^2O
82-3017	CYLINDRICAL without prechamber	Low	▪▪	40mm H^2O
82-3018	CYLINDRICAL without prechamber	Medium	▪▪▪	70mm H^2O
82-3019	CYLINDRICAL without prechamber	Medium High	▪▪▪▪	100mm H^2O
82-3020	CYLINDRICAL without prechamber	High	▪▪▪▪▪	130mm H^2O

* Provided with cylindrical and micro versions only
** Provided with cylindrical versions only

Pressures Quoted +/- 10mm H_2O

SHUNT SYSTEMS, PROGRAMMABLE VALVES

Programmable Valve

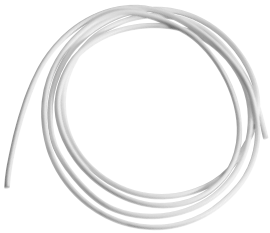
Straight Connector

Priming Adapter

Introducer

PROGRAMMABLE Valves only
Include: Programmable Valve, Information manual, straight connector[s]*, Introducer**, and priming adaptor [supplied where needed

82-3162	INLINE with SIPHONGUARD
82-3164	INLINE
82-3182	RIGHT ANGLE with SIPHONGUARD
82-3184	RIGHT ANGLE
82-3110	CYLINDRICAL with prechamber
82-3115	CYLINDRICAL
82-3116	MICRO with RICKHAM Reservior
82-3112	MICRO



Peritoneal Catheter

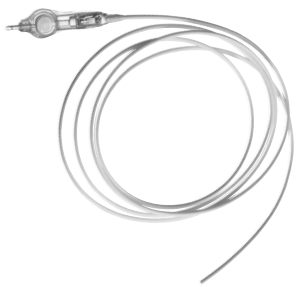
Programmable Valve

Priming Adapter

Ventricular Catheter

PROGRAMMABLE Valve System
Includes: Programmable Valve, 14cm ventricular catheter, 120cm peritoneal catheter, Information manual, straight connector[s]*, Introducer**, and priming adaptor [supplied where needed]

82-3832	INLINE with SIPHONGUARD
82-3834	INLINE
82-3136	RIGHT ANGLE with SIPHONGUARD
82-3838	RIGHT ANGLE



Unitized Peritoneal Catheter

Straight Connector

Priming Adapter

Introducer

Ventricular Catheter

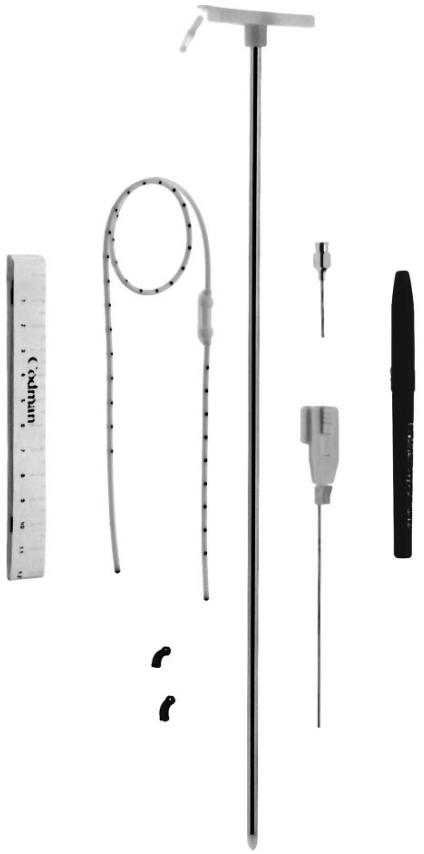
PROGRAMMABLE Valve System Unitised
Includes: Programmable Valve, 14cm ventricular catheter, 120cm unitised peritoneal catheter, Information manual, straight connector[s]*, Introducer**, and priming adaptor [supplied where needed]

82-3842	INLINE with siphonguard
82-3844	INLINE
82-3146	RIGHT ANGLE with SIPHONGUARD
82-3148	RIGHT ANGLE
82-3111	CYLINDRICAL with prechamber
82-3113	MICRO with RICKHAM Reservior
82-3114	MICRO

82-3190 CODMAN Programmer

82-3192 VPV™ System, Valve Position Verification Programmer

SHUNT SYSTEMS, VALVES, UNI-SHUNT



The UNI-SHUNT* with Reservoir incorporates a double dome access port to facilitate injections and aspirations of CSF samples. It is a continuous length of barium impregnated silicone tubing with an access reservoir made of self sealing silicone which can be punctured with a 25 gauge or smaller Huber type needle.
The simplicity of one piece design means that there are no connectors, so the possibility of disconnection and subsequent complications is eliminated.
The catheter has rounded X-ray detactable tantalum ventricular and distal tips, X-ray detectable pressure markings at the distal tip, and X-ray detectable markings on the ventricular and peritoneal ends.
The UNI-SHUNT* catheter with Reservoir Kit is supplied **sterile** with the following:

Blunt Tip Needle, 17 gauge, disposable, for flushing and testing purposes.
Disposable Malleable Catheter Passer, short.
Each 90cm and 102cm length kits also include one disposable Malleable Catheter Passer, long.
UNI-SHUNT* with Reservoir Anchoring Clips, two.
UNI-SHUNT* with Reservoir Introducer.
Marking Pen, sterile.
Measuring Tape, non-sterile.

Note
The 53cm and 62 cm length Reservoir Catheters have a distance of 11 cms from the ventricular tip to the reservoir, the 78cm, 90cm, and 102cm length Reservoir Catheters have a distance of 13 cms from the ventricular tip to the reservoir.

	UNI-SHUNT* with Reservoir Kit	
	Length	**Closing Pressure (Measure in cm of Water)**
82-8501	53 cm	82-85012–5 cm H_2O Low
82-8502	53 cm	5–9 cm H_2O Medium
82-8511	62 cm	2–5 cm H_2O Low
82-8512	62 cm	5–9 cm H_2O Medium
82-8521	78 cm	2–5 cm H_2O Low
82-8522	78 cm	5–9 cm H_2O Medium
82-8531	90 cm	2–5 cm H_2O Low
82-8532	90 cm	5–9 cm H_2O Medium
82-8533	90 cm	9–14 cm H_2O High
82-8541	102 cm	2–5 cm H_2O Low
82-8542	102 cm	5–9 cm H_2O Medium
82-8543	102 cm	9–14 cm H_2O High

ELECTRODE, ENDOSCOPIC

83-1367 ME$^{2®}$ Micro Endoscopic Electrode with cable
The ME$^{2®}$ (Micro Endoscopic Electrode) is a flexible electrosurgical instrument designed for use with either flexible or rigid endoscopes having operating channels of 3 french (1mm) or larger. Multiple settings for optimal results.
Monopolar Cable length 60cm.
Deliver precise monopolar cutting, fenestration and dissection during endoscopic procedures.
Sterile, single-use product includes ME$^{2®}$, disposable Touhy-Borst adaptor and Monopolar Cable.

INTRODUCERS, PEEL AWAY CATHETER

Peel-Away Catheter Introducer, sterile, 10 units/box. Used as a guide for catheter insertion. Introducer can be peeled apart permitting optimal positioning of a ventricular catheter.

	Overall length	7″	(18.0cm)
	Peel Away Sheath length	6″	(14.7cm)
83-1325	12.5 Fr		
83-1326	14 Fr		

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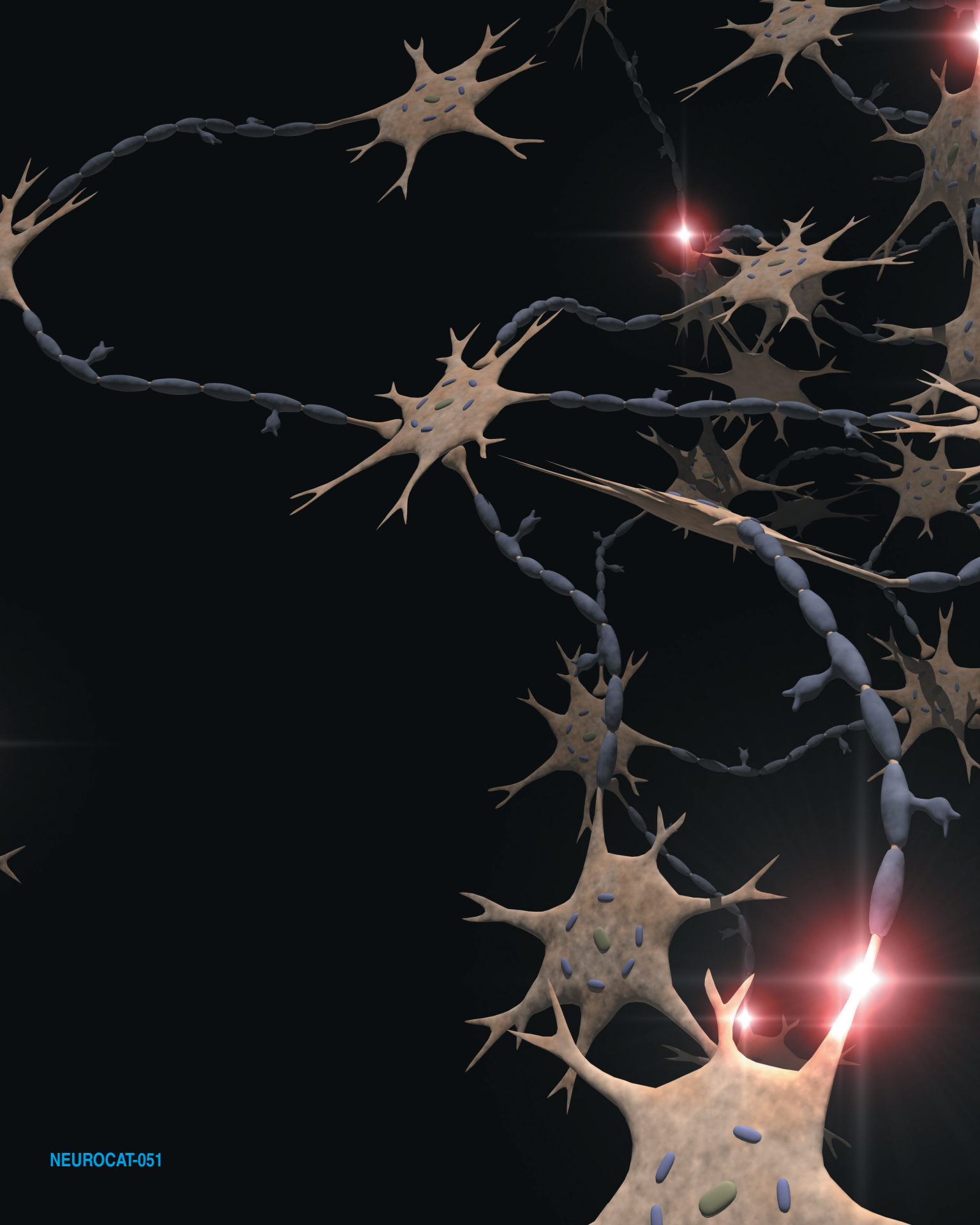

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